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ABSTRACT

These materials contain the test booklets and answer keys to the mathematics mastery program of the West Bloomfield Schools (Michigan). Two booklets, forms A and B, were developed for each grade level from grade 3 through grade 6. The answer keys are on separate sheets. The mastery program is based on textbook and supplemental materials. (TW)

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ED287689

Grade 3
Form A

# MATH

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
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# WEST BLOOMFIELD SCHOOL DISTRICT

# OUTCOME BASED

# MASTERY

# LEARNING PROGRAM

SE 048 643



BEST COPY AVAILABLE

1. In 5<u>2</u>8 the 2 stands for

**A.** 2
**B.** 20
**C.** 200
**D.** 2000

---

2. In 3<u>7</u>62 the 7 stands for

**A.** 7
**B.** 70
**C.** 700
**D.** 7000

---

3. In 864<u>3</u> the 3 stands for

**A.** 3
**B.** 30
**C.** 300
**D.** 3000

---

4. In <u>4</u>839 the 4 stands for

**A.** 4
**B.** 40
**C.** 400
**D.** 4000

5. 43 rounded to the nearest 10 is

**A.** 30
**B.** 40
**C.** 50
**D.** 60

---

6. 55 rounded to the nearest 10 is

**A.** 30
**B.** 40
**C.** 50
**D.** 60

---

7. 69 rounded to the nearest 10 is

**A.** 50
**B.** 60
**C.** 70
**D.** 80

---

8. 99 rounded to the nearest 10 is

**A.** 70
**B.** 80
**C.** 90
**D.** 100

**ADD**

9.

$$\begin{array}{r} 48 \\ +23 \\ \hline \end{array}$$

**A.** 58
**B.** 60
**C.** 71
**D.** 78

---

10.

$$\begin{array}{r} 55 \\ +26 \\ \hline \end{array}$$

**A.** 71
**B.** 81
**C.** 96
**D.** 711

---

11.

$$\begin{array}{r} 458 \\ +275 \\ \hline \end{array}$$

**A.** 613
**B.** 623
**C.** 733
**D.** 7313

---

12.

$$\begin{array}{r} 23 \\ 19 \\ +38 \\ \hline \end{array}$$

**A.** 50
**B.** 60
**C.** 70
**D.** 80

**SUBTRACT**

13.

$$\begin{array}{r} 43 \\ -\,26 \\ \hline \end{array}$$

**A.** 13
**B.** 17
**C.** 23
**D.** 69

---

14.

$$\begin{array}{r} 60 \\ -\,18 \\ \hline \end{array}$$

**A.** 40
**B.** 42
**C.** 48
**D.** 58

---

15.

$$\begin{array}{r} 694 \\ -346 \\ \hline \end{array}$$

**A.** 342
**B.** 348
**C.** 352
**D.** 940

---

16.

$$\begin{array}{r} 752 \\ -384 \\ \hline \end{array}$$

**A.** 368
**B.** 378
**C.** 432
**D.** 1036

17. If 8 + 9 = 17, then 17 − 9 =

**A.** 6
**B.** 7
**C.** 8
**D.** 9

---

18. If 3 + 7 = 10, then 10 − 7 =

**A.** 3
**B.** 4
**C.** 6
**D.** 7

---

19. If 9 − 3 = 6, then 6 + 3 =

**A.** 3
**B.** 6
**C.** 9
**D.** 12

---

20. If 13 − 6 = 7, then 7 + 6 =

**A.** 6
**B.** 7
**C.** 9
**D.** 13

21. If $16 \div 2 = \square$, then

**A.** $2 + \square = 16$
**B.** $2 \times 16 = \square$
**C.** $16 - \square = 2$
**D.** $\square \times 2 = 16$

---

22. If $4 \times 5 = \square$, then

**A.** $\square + 5 = 4$
**B.** $5 \times \square = 4$
**C.** $\square \div 5 = 4$
**D.** $\square - 5 = 4$

---

23. If $28 \div 4 = \square$, then

**A.** $\square \times 4 = 28$
**B.** $\square + 4 = 28$
**C.** $28 - 4 = \square$
**D.** $\square \div 4 = 28$

---

24. If $3 \times 9 = \square$, then

**A.** $9 + 3 = \square$
**B.** $\square \div 9 = 3$
**C.** $\square \times 3 = 9$
**D.** $9 - \square = 3$

25. If $12 \times \square = 120$, then $10 \times 12 = 120$

**A.** 5
**B.** 10
**C.** 11
**D.** 12

---

26. If $13 \times 8 = 104$, then $\square \times 13 = 104$

**A.** 4
**B.** 6
**C.** 8
**D.** 13

---

27. If $17 \times 22 = 374$, then $\square \times 17 = 374$

**A.** 10
**B.** 11
**C.** 17
**D.** 22

---

28. If $42 \times 11 = 462$, then $11 \times \square = 462$

**A.** 11
**B.** 22
**C.** 42
**D.** 462

29. How many nickels are needed to make $.25?

**A.** 3
**B.** 4
**C.** 5
**D.** 6

---

30. How many quarters are needed to make $1.00?

**A.** 2
**B.** 3
**C.** 4
**D.** 5

---

31. How much do 2 dimes, 2 nickels and 3 pennies equal?

**A.** $.07
**B.** $.17
**C.** $.33
**D.** $.43

---

32. How much do 2 quarters, 3 dimes and 1 nickel equal?

**A.** $.50
**B.** $.60
**C.** $.75
**D.** $.85

## MARK THE CORRECT TIME

33.

**A.** 1:35
**B.** 7:05
**C.** 8:00
**D.** 12:00

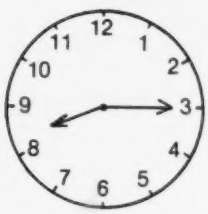
---

34.

**A.** 5:55
**B.** 6:00
**C.** 6:55
**D.** 7:55

---

35.



**A.** 3:30
**B.** 3:40
**C.** 7:15
**D.** 8:15

---

36.

**A.** 7:00
**B.** 7:55
**C.** 8:00
**D.** 8:55

37. Which would you measure in inches?

**A.** Length of a classroom
**B.** Length of a pencil
**C.** Length of a city block
**D.** Length of a train

---

38. Which would you measure in feet?

**A.** Height of a flag pole
**B.** Height of a toy car
**C.** Height of a cat
**D.** Height of an apple

---

39. Which would you measure in inches?

**A.** Width of a book
**B.** Width of a soccer field
**C.** Width of a lake
**D.** Width of a car

---

40. Which would you measure in yards?

**A.** Width of a school desk
**B.** Length of a football field
**C.** Length of a tricycle
**D.** Width of a bed

41. Which would you measure in centimeters?

**A.** Length of an eraser
**B.** Length of a car
**C.** Length of a train
**D.** Length of a submarine

---

42. Which would you measure in meters?

**A.** Length of a book
**B.** Length of a swimming pool
**C.** Length of a fly
**D.** Length of a state

---

43. Which would you measure in centimeters?

**A.** Height of a pop bottle
**B.** Height of a building
**C.** Height of a waterfall
**D.** Height of a tree

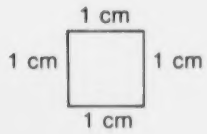
---

44. Which would you measure in meters?

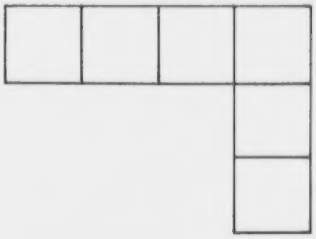
**A.** Width of a classroom
**B.** Width of a checker board
**C.** Width of a desk
**D.** Width of a city

**Tell the number of square centimeters in each picture.**

**This is one square centimeter.**




45.



**A.** 3
**B.** 4
**C.** 6
**D.** 7

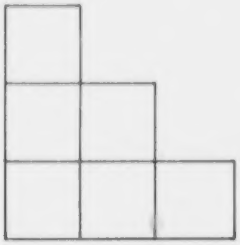
---

46.

**A.** 3
**B.** 4
**C.** 5
**D.** 6

---

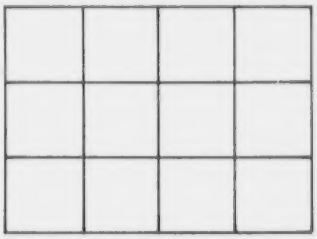
47.



**A.** 3
**B.** 4
**C.** 5
**D.** 6

---

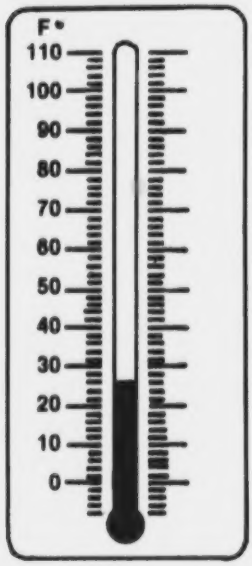
48.



**A.** 7
**B.** 9
**C.** 12
**D.** 15

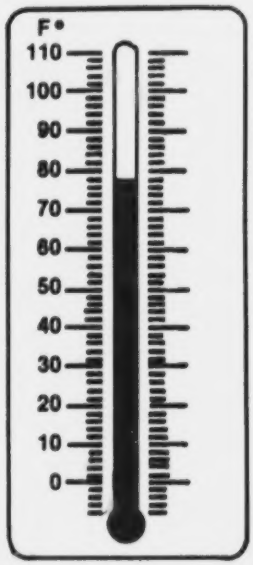
## Read the Temperature

49.



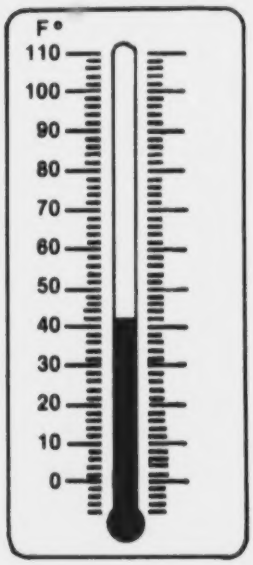

A. 20°
B. 26°
C. 30°
D. 36°

50.



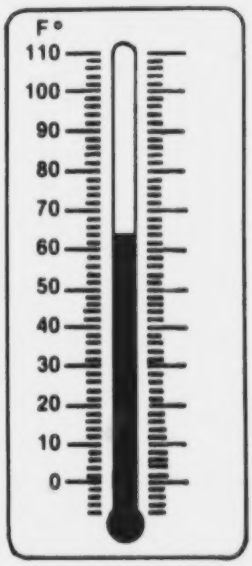

A. 68°
B. 72°
C. 78°
D. 80°

51.




A. 38°
B. 40°
C. 42°
D. 50°

52.




A. 60°
B. 64°
C. 66°
D. 70°

53. Find the figure that is the same shape as

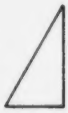
**A.**

**C.**

**B.**

**D.**

---

54. Find the figure that is the same shape as 

**A.**

**C.**

**B.**

**D.**

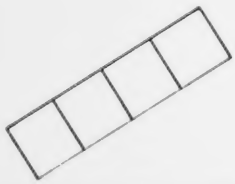
---

55. Find the figure that is the same size and shape as

**A.**

**C.**

**B.**

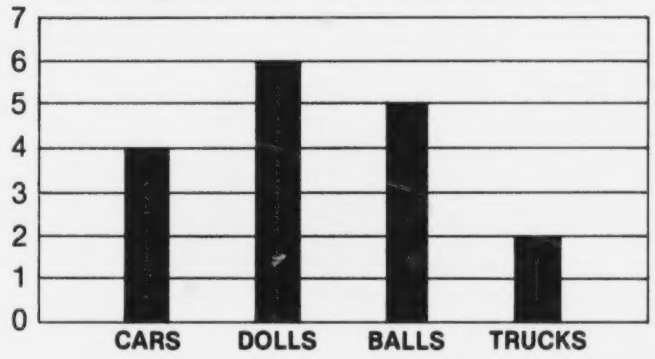
**D.** 

---

56. The figure is divided into how many parts of the same size and shape?

**A.** 2
**B.** 3
**C.** 4
**D.** 5

## READ THE GRAPH




Bill and Sue's graph shows how many of each kind of toy they have.

---

57. The number of balls they have is

**A.** 7 **B.** 6 **C.** 5 **D.** 4

---

58. The number of trucks they have is

**A.** 3 **B.** 2 **C.** 1 **D.** 0

---

59. The number of dolls they have is

**A.** 2 **B.** 4 **C.** 5 **D.** 6

---

60. The number of cars they have is

**A.** 2 **B.** 4 **C.** 5 **D.** 6

61. Tom caught 5 fish. He caught 9 more. How many fish does he have?

**A.** 4 **C.** 14
**B.** 5 **D.** 15

---

62. Susie found 15 rocks. She gave away 7. How many did she have then?

**A.** 7 **C.** 9
**B.** 8 **D.** 10

---

63. Bill has 17 pencils. Sally has 24 pencils, and Phillip has 5 pencils. They have how many pencils in all?

**A.** 22 **C.** 43
**B.** 41 **D.** 46

---

64. There are 21 row boats and 18 sailboats. How many more row boats than sailboats are there?

**A.** 3 **C.** 19
**B.** 4 **D.** 39

---

65. Please do the separate multiplication fact sheets.

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

**Grade 3 - Level A  Test items 1 thru 48**

MM3-8 ANSW. KEY 31  GRADE 3A 10/01/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| | | | 18 | 3005-18 | 1 | 36 | 3009-36 | 2 |
| 1 | 3001-1 | 2 | 19 | 3005-19 | 3 | 37 | 3010-37 | 2 |
| 2 | 3001-2 | 3 | 20 | 3005-20 | 4 | 38 | 3010-38 | 1 |
| 3 | 3001-3 | 1 | 21 | 3006-21 | 4 | 39 | 3010-39 | 1 |
| 4 | 3001-4 | 4 | 22 | 3006-22 | 3 | 40 | 3010-40 | 2 |
| 5 | 3002-5 | 2 | 23 | 3006-23 | 1 | 41 | 3011-41 | 1 |
| 6 | 3002-6 | 4 | 24 | 3006-24 | 2 | 42 | 3011-42 | 2 |
| 7 | 3002-7 | 3 | 25 | 3007-25 | 2 | 43 | 3011-43 | 1 |
| 8 | 3002-8 | 4 | 26 | 3007-26 | 3 | 44 | 3011-44 | 1 |
| 9 | 3003-9 | 3 | 27 | 3007-27 | 4 | 45 | 3012-45 | 3 |
| 10 | 3003-10 | 2 | 28 | 3007-28 | 3 | 46 | 3012-46 | 3 |
| 11 | 3003-11 | 3 | 29 | 3008-29 | 3 | 47 | 3012-47 | 4 |
| 12 | 3003-12 | 4 | 30 | 3008-30 | 3 | 48 | 3012-48 | 3 |
| 13 | 3004-13 | 2 | 31 | 3008-31 | 3 | | | |
| 14 | 3004-14 | 2 | 32 | 3008-32 | 4 | | | |
| 15 | 3004-15 | 2 | 33 | 3009-33 | 2 | | | |
| 16 | 3004-16 | 1 | 34 | 3009-34 | 3 | | | |
| 17 | 3005-17 | 3 | 35 | 3009-35 | 4 | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 3 - Level A  Test items 49 thru 65

MM3-8 ANSW. KEY 32  GRADE 3A 10/01/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| 1 | 3013-49 | 2 | | | | | | |
| 2 | 3013-50 | 3 | | | | | | |
| 3 | 3013-51 | 3 | | | | | | |
| 4 | 3013-52 | 2 | | | | | | |
| 5 | 3014-53 | 4 | | | | | | |
| 6 | 3014-54 | 1 | | | | | | |
| 7 | 3014-55 | 2 | | | | | | |
| 8 | 3014-56 | 3 | | | | | | |
| 9 | 3015-57 | 3 | | | | | | |
| 10 | 3015-58 | 2 | | | | | | |
| 11 | 3015-59 | 4 | | | | | | |
| 12 | 3015-60 | 2 | | | | | | |
| 13 | 3016-61 | 3 | | | | | | |
| 14 | 3016-62 | 2 | | | | | | |
| 15 | 3016-63 | 4 | | | | | | |
| 16 | 3016-64 | 1 | | | | | | |
| 17 | 3017-65 | 1 | | | | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 3
Form B

# MATH

## WEST BLOOMFIELD SCHOOL DISTRICT

## OUTCOME BASED

## MASTERY

## LEARNING PROGRAM

1. In 5294 the 2 stands for

**A.** 2
**B.** 20
**C.** 200
**D.** 2000

---

2. In 7845 the 4 stands for

**A.** 4
**B.** 40
**C.** 400
**D.** 4000

---

3. In 1359 the 1 stands for

**A.** 1
**B.** 10
**C.** 100
**D.** 1000

---

4. In 3764 the 3 stands for

**A.** 3
**B.** 30
**C.** 300
**D.** 3000

5. 26 rounded to the nearest 10 is

**A.** 10
**B.** 20
**C.** 30
**D.** 40

---

6. 41 rounded to the nearest 10 is

**A.** 30
**B.** 40
**C.** 50
**D.** 60

---

7. 78 rounded to the nearest 10 is

**A.** 60
**B.** 70
**C.** 80
**D.** 90

---

8. 97 rounded to the nearest 10 is

**A.** 70
**B.** 80
**C.** 90
**D.** 100



22a

**ADD**

9.

$$\begin{array}{r} 52 \\ +38 \\ \hline \end{array}$$

**A.** 24
**B.** 26
**C.** 80
**D.** 90

---

10.

$$\begin{array}{r} 78 \\ +14 \\ \hline \end{array}$$

**A.** 64
**B.** 82
**C.** 92
**D.** 812

---

11.

$$\begin{array}{r} 637 \\ +276 \\ \hline \end{array}$$

**A.** 441
**B.** 913
**C.** 953
**D.** 8013

---

12.

$$\begin{array}{r} 26 \\ 18 \\ +45 \\ \hline \end{array}$$

**A.** 79
**B.** 89
**C.** 99
**D.** 109



22b

**SUBTRACT**

13.

$$\begin{array}{r} 45 \\ -\ 17 \\ \hline \end{array}$$

**A.** 28
**B.** 32
**C.** 38
**D.** 62

---

14.

$$\begin{array}{r} 80 \\ -\ 6 \\ \hline \end{array}$$

**A.** 74
**B.** 76
**C.** 84
**D.** 86

---

15.

$$\begin{array}{r} 562 \\ -233 \\ \hline \end{array}$$

**A.** 231
**B.** 329
**C.** 391
**D.** 795

---

16.

$$\begin{array}{r} 743 \\ -365 \\ \hline \end{array}$$

**A.** 322
**B.** 358
**C.** 378
**D.** 918

17. If 5 + 8 = 13, then

**A.** 8 − 5 = 3
**B.** 13 − 8 = 5
**C.** 5 + 13 = 8
**D.** 5 − 8 = 13

---

18. If 7 + 8 = 15, then

**A.** 8 − 7 = 1
**B.** 7 + 15 = 8
**C.** 15 − 8 = 7
**D.** 7 − 8 = 15

---

19. If 17 − 9 = 8, then

**A.** 9 − 8 = 1
**B.** 8 + 9 = 17
**C.** 17 + 8 = 9
**D.** 17 + 9 = 8

---

20. If 16 − 9 = 7, then

**A.** 9 − 7 = 2
**B.** 16 + 7 = 9
**C.** 16 + 9 = 7
**D.** 9 + 7 = 16

21. If $21 \div 7 = \square$, then

**A.** $\square \times 7 = 21$
**B.** $21 - 7 = \square$
**C.** $\square \times 21 = 7$
**D.** $21 + \square = 7$

---

22. If $4 \times 6 = \square$, then

**A.** $\square - 4 = 6$
**B.** $\square \div 6 = 4$
**C.** $6 + 4 = \square$
**D.** $\square \times 6 = 4$

---

23. If $22 \div 2 = \square$, then

**A.** $22 + 2 = \square$
**B.** $\square - 22 = 2$
**C.** $2 + \square = 22$
**D.** $\square \times 2 = 22$

---

24. If $6 \times 5 = \square$, then

**A.** $\square \times 5 = 6$
**B.** $\square \div 5 = 6$
**C.** $5 + \square = 6$
**D.** $\square - 5 = 6$

25. If 33 × □ = 660, then 20 × 33 = 660

**A.** 10
**B.** 15
**C.** 20
**D.** 33

---

26. If 12 × 18 = 216, then □ × 12 = 216

**A.** 12
**B.** 18
**C.** 20
**D.** 216

---

27. If 13 × 9 = 117, then 9 × □ = 117

**A.** 9
**B.** 10
**C.** 13
**D.** 17

---

28. If □ × 10 = 210, then 10 × 21 = 210

**A.** 10
**B.** 11
**C.** 20
**D.** 21

29. How many nickels are needed to make $.30?

**A.** 4
**B.** 5
**C.** 6
**D.** 7

---

30. How many quarters are needed to make $ .50 ?

**A.** 1
**B.** 2
**C.** 3
**D.** 4

---

31. How much do 1 quarter, 4 dimes and 2 nickels equal ?

**A.** 35 ¢
**B.** 50 ¢
**C.** 65 ¢
**D.** 75 ¢

---

32. How much do 3 dimes, 3 nickels and 4 pennies equal?

**A.** $ .10
**B.** $ .44
**C.** $ .49
**D.** $ .54

## MARK THE CORRECT TIME

33.

**A.** 1:10
**B.** 2:05
**C.** 2:10
**D.** 12:00

---

34.

**A.** 2:30
**B.** 3:35
**C.** 4:35
**D.** 7:20

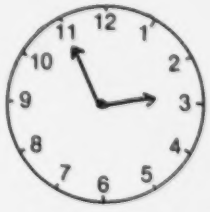
---

35.

**A.** 3:50
**B.** 4:10
**C.** 10:00
**D.** 10:20

---

36.



**A.** 2:55
**B.** 3:00
**C.** 3:30
**D.** 3:55

37. Which would you measure in feet?

**A.** Height of a door
**B.** Height of a glass
**C.** Height of an ant
**D.** Height of a toy car

---

38. Which would you measure in inches?

**A.** Length of a book
**B.** Length of a classroom
**C.** Length of a swimming pool
**D.** Length of a basketball court

---

39. Which would you measure in yards?

**A.** Length of notebook paper
**B.** Length of a carpet
**C.** Length of a pen
**D.** Length of a rabbit

---

40. Which would you measure in inches?

**A.** Width of a cereal box
**B.** Width of a car
**C.** Width of a highway
**D.** Width of a theater

41. Which would you measure in centimeters?

**A.** Width of a lunch box
**B.** Width of a basketball court
**C.** Width of a street
**D.** Width of a bedroom

---

42. Which would you measure in meters?

**A.** Length of a swimming pool
**B.** Length of a tennis racket
**C.** Length of a baseball mitt
**D.** Length of an eraser

---

43. Which would you measure in centimeters?

**A.** Length of a house
**B.** Length of a book
**C.** Length of a car
**D.** Length of a boat

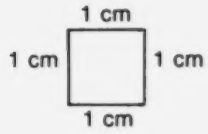
---

44. Which would you measure in meters?

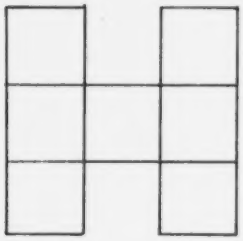
**A.** Width of a street
**B.** Width of a comb
**C.** Width of a leaf
**D.** Width of a shoe

**Tell the number of square centimeters in each picture.**

**This is one square centimeter.**



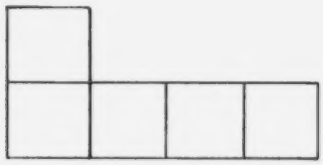

45.



**A.** 6
**B.** 7
**C.** 8
**D.** 9

---

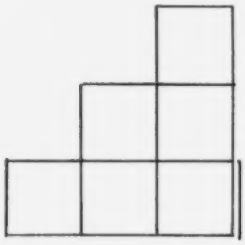
46.



**A.** 3
**B.** 4
**C.** 5
**D.** 7

---

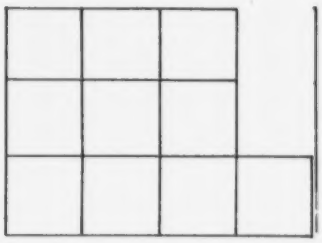
47.



**A.** 6
**B.** 7
**C.** 8
**D.** 9

---

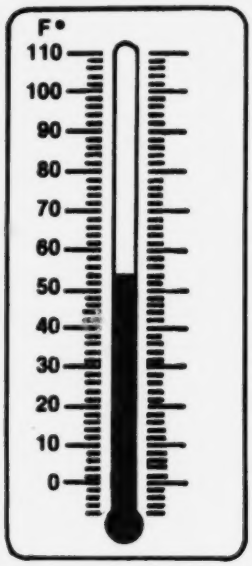
48.



**A.** 6
**B.** 7
**C.** 9
**D.** 10

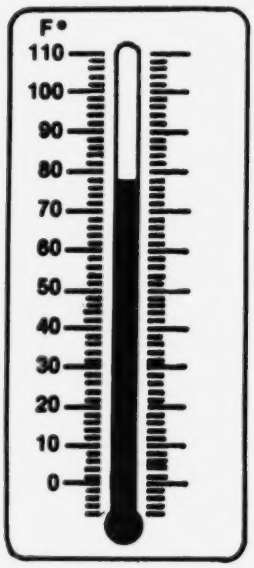
# Read the Temperature

49.



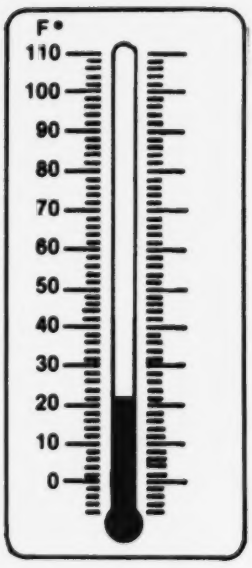

A. 50°
B. 54°
C. 58°
D. 60°

50.



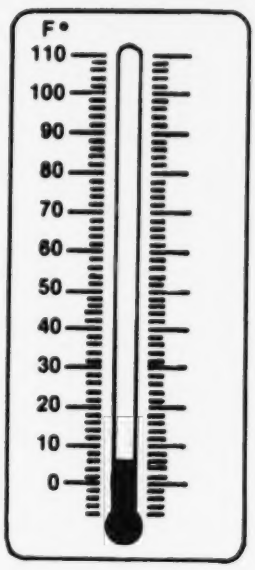

A. 68°
B. 70°
C. 78°
D. 80°

51.



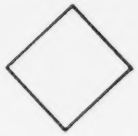

A. 20°
B. 22°
C. 30°
D. 38°

52.



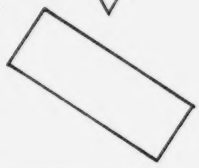

A. 0°
B. 4°
C. 6°
D. 14°

53. Find the figure that is the same shape as

A. 

C.

B.

D. 

---

54. Find the figure that is the same shape as

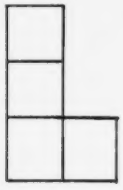
A.

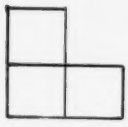
C.

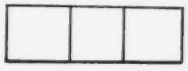
B.

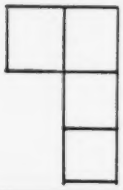
D.

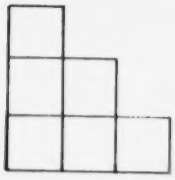
---

55. Find the figure that is the same size and shape as 

A. 

C. 

B. 

D. 

---

56. Find the figure that is the same size and shape as

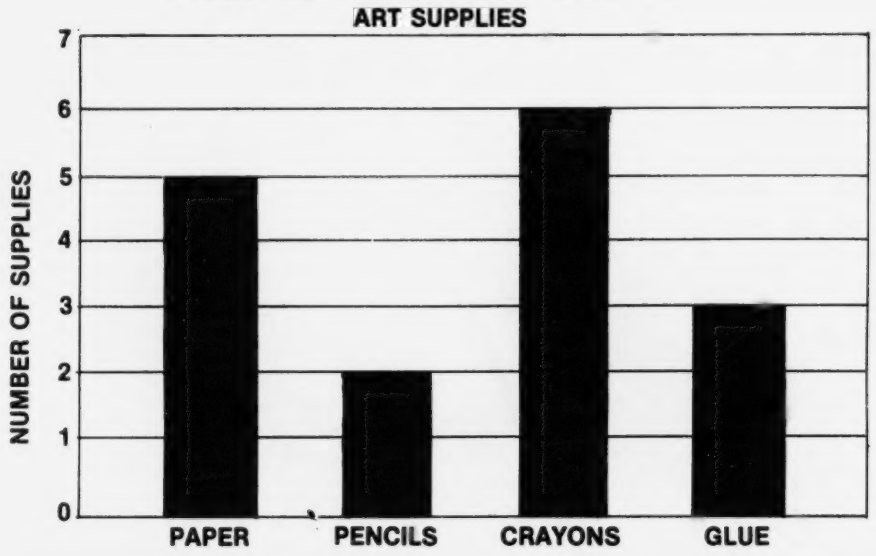
A.

C.

B.

D.

## READ THE GRAPH




57. The number of crayons is

**A.** 4 **B.** 5 **C.** 6 **D.** 7

58. The number of pencils is

**A.** 2 **B.** 3 **C.** 5 **D.** 6

59. The number of glue bottles is

**A.** 2 **B.** 3 **C.** 5 **D.** 6

60. The number of sheets of paper is

**A.** 2 **B.** 3 **C.** 4 **D.** 5

61. John had 7 marbles. His brother gave him 5 more. How many marbles does John have?

**A.** 2 **C.** 12
**B.** 11 **D.** 13

---

62. Jason picked 15 apples. He gave away 6. How many apples did he have left?

**A.** 7 **C.** 10
**B.** 9 **D.** 11

---

63. Ed has 12 markers, 16 pencils and 4 erasers. How many items does he have?

**A.** 20 **C.** 28
**B.** 24 **D.** 32

---

64. Mrs. Brown has 15 boys and 21 girls in her class. How many more girls than boys does she have?

**A.** 6 **C.** 8
**B.** 7 **D.** 9

---

65. Please do the separate multiplication fact sheet.

**Grade 3 - Level B Test items 1 thru 48**

p

MM3-8 ANSW. KEY 33 GRADE 3B 10/02/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| | | | 18 | 3005-18 | 3 | 36 | 3009-36 | 1 |
| 1 | 3001-1 | 3 | 19 | 3005-19 | 2 | 37 | 3010-37 | 1 |
| 2 | 3001-2 | 2 | 20 | 3005-20 | 4 | 38 | 3010-38 | 1 |
| 3 | 3001-3 | 4 | 21 | 3006-21 | 1 | 39 | 3010-39 | 2 |
| 4 | 3001-4 | 4 | 22 | 3006-22 | 2 | 40 | 3010-40 | 1 |
| 5 | 3002-5 | 3 | 23 | 3006-23 | 4 | 41 | 3011-41 | 1 |
| 6 | 3002-6 | 2 | 24 | 3006-24 | 2 | 42 | 3011-42 | 1 |
| 7 | 3002-7 | 3 | 25 | 3007-25 | 3 | 43 | 3011-43 | 2 |
| 8 | 3002-8 | 4 | 26 | 3007-26 | 2 | 44 | 3011-44 | 1 |
| 9 | 3003-9 | 4 | 27 | 3007-27 | 3 | 45 | 3012-45 | 2 |
| 10 | 3003-10 | 3 | 28 | 3007-28 | 4 | 46 | 3012-46 | 3 |
| 11 | 3003-11 | 2 | 29 | 3008-29 | 3 | 47 | 3012-47 | 1 |
| 12 | 3003-12 | 2 | 30 | 3008-30 | 2 | 48 | 3012-48 | 4 |
| 13 | 3004-13 | 1 | 31 | 3008-31 | 4 | | | |
| 14 | 3004-14 | 1 | 32 | 3008-32 | 3 | | | |
| 15 | 3004-15 | 2 | 33 | 3009-33 | 2 | | | |
| 16 | 3004-16 | 3 | 34 | 3009-34 | 2 | | | |
| 17 | 3005-17 | 2 | 35 | 3009-35 | 4 | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

**Grade 3 - Level B  Test items 49 thru 65**

MM3-B ANSW. KEY 34  GRADE 3B 10/02/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| 1 | 3013-1 | 2 | | | | | | |
| 2 | 3013-2 | 3 | | | | | | |
| 3 | 3013-3 | 2 | | | | | | |
| 4 | 3013-4 | 3 | | | | | | |
| 5 | 3014-5 | 4 | | | | | | |
| 6 | 3014-6 | 1 | | | | | | |
| 7 | 3014-7 | 2 | | | | | | |
| 8 | 3014-8 | 3 | | | | | | |
| 9 | 3015-9 | 3 | | | | | | |
| 10 | 3015-10 | 1 | | | | | | |
| 11 | 3015-11 | 2 | | | | | | |
| 12 | 3015-12 | 4 | | | | | | |
| 13 | 3016-13 | 3 | | | | | | |
| 14 | 3016-14 | 2 | | | | | | |
| 15 | 3016-15 | 4 | | | | | | |
| 16 | 3016-16 | 1 | | | | | | |
| 17 | 3017-17 | 1 | | | | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 4
Form A

# MATH

## WEST BLOOMFIELD SCHOOL DISTRICT

## OUTCOME BASED

## MASTERY

## LEARNING PROGRAM

1. In 3<u>2</u>8,174 the 2 stands for

**A.** 20
**B.** 200
**C.** 2,000
**D.** 20,000

---

2. In 2<u>3</u>,410 the 3 stands for

**A.** 300
**B.** 3,000
**C.** 30,000
**D.** 300,000

---

3. In 8<u>6</u>15 the 6 stands for

**A.** 6
**B.** 60
**C.** 600
**D.** 6,000

---

4. In <u>9</u>81,366 the 9 stands for

**A.** 900
**B.** 9,000
**C.** 90,000
**D.** 900,000

5. 77 rounded to the nearest 10 is

**A.** 70
**B.** 75
**C.** 80
**D.** 100

---

6. 327 rounded to the nearest 100 is

**A.** 300
**B.** 320
**C.** 330
**D.** 400

---

7. 105 rounded to the nearest 100 is

**A.** 100
**B.** 110
**C.** 150
**D.** 200

---

8. 65 rounded to the nearest 10 is

**A.** 0
**B.** 60
**C.** 70
**D.** 100

**ADD**

9.

$$\begin{array}{r} 789 \\ +256 \\ \hline \end{array}$$

**A.** 935
**B.** 945
**C.** 1035
**D.** 1045

---

10.

$$\begin{array}{r} 14 \\ 29 \\ +46 \\ \hline \end{array}$$

**A.** 79
**B.** 719
**C.** 89
**D.** 819

---

11.

$$\begin{array}{r} 298 \\ +275 \\ \hline \end{array}$$

**A.** 423
**B.** 463
**C.** 563
**D.** 573

---

12.

$$\begin{array}{r} 1986 \\ +1987 \\ \hline \end{array}$$

**A.** 2863
**B.** 3863
**C.** 3873
**D.** 3973

## SUBTRACT

13.

$$\begin{array}{r} 8359 \\ -2573 \\ \hline \end{array}$$

A. 5786
B. 6226
C. 6786
D. 6886

---

14.

$$\begin{array}{r} 524 \\ -278 \\ \hline \end{array}$$

A. 236
B. 246
C. 256
D. 346

---

15.

$$\begin{array}{r} 9524 \\ -7864 \\ \hline \end{array}$$

A. 1660
B. 1760
C. 2340
D. 2360

---

16.

$$\begin{array}{r} 521 \\ -386 \\ \hline \end{array}$$

A. 135
B. 145
C. 235
D. 265

## MULTIPLY

17.

$$\begin{array}{r} 326 \\ \times\ 3 \\ \hline \end{array}$$

**A.** 968
**B.** 969
**C.** 978
**D.** 1078

---

18.

$$\begin{array}{r} 758 \\ \times\ 6 \\ \hline \end{array}$$

**A.** 4208
**B.** 4248
**C.** 4448
**D.** 4548

---

19.

$$\begin{array}{r} 108 \\ \times\ 8 \\ \hline \end{array}$$

**A.** 804
**B.** 864
**C.** 1404
**D.** 8064

---

20.

$$\begin{array}{r} 238 \\ \times\ 4 \\ \hline \end{array}$$

**A.** 822
**B.** 932
**C.** 943
**D.** 952

**DIVIDE**

21. $4\overline{)63}$

**A.** 12 R 4
**B.** 13 R 1
**C.** 14 R 3
**D.** 15 R 3

---

22. $3\overline{)89}$

**A.** 23
**B.** 29 R 1
**C.** 29 R 2
**D.** 36 R 1

---

23. $8\overline{)44}$

**A.** 4 R 6
**B.** 5 R 4
**C.** 6 R 4
**D.** 55

---

24. $7\overline{)91}$

**A.** 12
**B.** 13
**C.** 12 R 7
**D.** 14

25. Which is true?

**A.** $\frac{2}{2} < \frac{1}{2}$

**B.** $\frac{2}{5} < \frac{1}{5}$

**C.** $\frac{4}{8} < \frac{3}{8}$

**D.** $\frac{2}{5} < \frac{4}{5}$

---

26. Which is true?

**A.** $\frac{1}{3} < \frac{2}{3}$

**B.** $\frac{3}{6} < \frac{1}{6}$

**C.** $\frac{4}{6} < \frac{2}{6}$

**D.** $\frac{7}{8} < \frac{2}{8}$

---

27. Which is true?

**A.** $\frac{3}{5} > \frac{4}{5}$

**B.** $\frac{2}{5} > \frac{5}{5}$

**C.** $\frac{5}{8} > \frac{1}{8}$

**D.** $\frac{1}{3} > \frac{2}{3}$

---

28. Which is true?

**A.** $\frac{3}{6} > \frac{2}{6}$

**B.** $\frac{3}{5} > \frac{4}{5}$

**C.** $\frac{4}{8} > \frac{5}{8}$

**D.** $\frac{1}{7} > \frac{2}{7}$

## SOLVE

29.

$\frac{1}{4} + \frac{2}{4} =$

**A.** $\frac{1}{4}$
**B.** $\frac{3}{4}$
**C.** $\frac{2}{8}$
**D.** $\frac{3}{8}$

---

30.

$\frac{5}{7} - \frac{2}{7} =$

**A.** $\frac{3}{0}$
**B.** $\frac{2}{7}$
**C.** $\frac{3}{7}$
**D.** $\frac{7}{7}$

---

31.

$\frac{5}{8} - \frac{1}{8} =$

**A.** $\frac{4}{0}$
**B.** $\frac{4}{8}$
**C.** $\frac{6}{8}$
**D.** $\frac{4}{16}$

---

32.

$\frac{4}{6} + \frac{1}{6} =$

**A.** $\frac{5}{6}$
**B.** $\frac{4}{12}$
**C.** $\frac{5}{12}$
**D.** $\frac{5}{36}$

## CHOOSE THE CORRECT WAY TO SHOW THE AMOUNT OF MONEY

33. 4 dollars and 7 cents

**A.** $4.07
**B.** $4.70
**C.** $7.04
**D.** $7.47

---

34. 1 dollar and 1 quarter

**A.** $ .35
**B.** $ 1.10
**C.** $ 1.25
**D.** $100.25

---

35. 2 dimes and 1 nickel

**A.** $ .20
**B.** $ .21
**C.** $ 25
**D.** $ .25

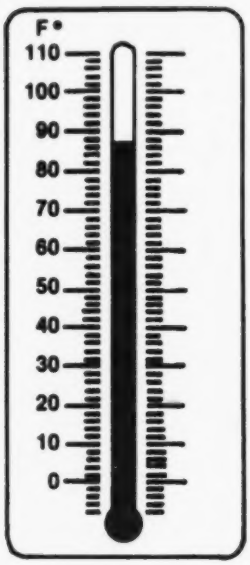
---

36. 2 dollars and 1 dime

**A.** $2.01
**B.** $2.05
**C.** $2.10
**D.** $2.25

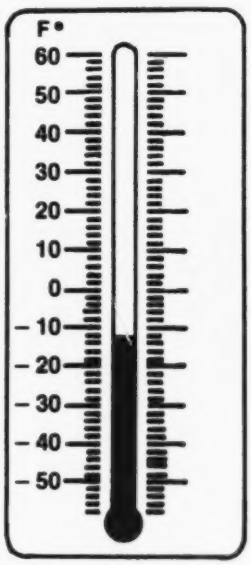
# READ THE TEMPERATURE

37.



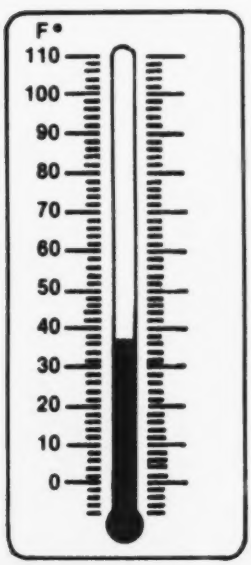

A. 80°
B. 87°
C. 90°
D. 92°

38.



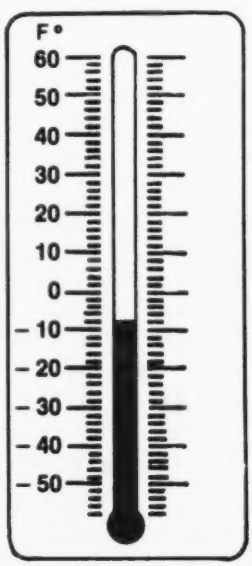

A. – 8°
B. – 10°
C. – 12°
D. – 15°

39.




A. 35°
B. 37°
C. 43°
D. 45°

40.




A. – 2°
B. – 5°
C. – 8°
D. 8°

41. Which would you measure in miles?

**A.** Length of Florida
**B.** Length of a bus
**C.** Length of a table top
**D.** Length of a pencil

---

42. Which would you measure in ounces?

**A.** Weight of a cup
**B.** Weight of a barbell
**C.** Weight of a brick
**D.** Weight of a can of tuna fish

---

43. Which would you measure in pounds?

**A.** Weight of a pencil
**B.** Weight of a baseball
**C.** Weight of an ocean liner
**D.** Weight of a dog

---

44. Which would you measure in tons?

**A.** Weight of a motorcycle
**B.** Weight of a train
**C.** Weight of an apple
**D.** Weight of a human

45. Which would you measure in kilograms?

**A.** A paper clip
**B.** A pencil
**C.** A bicycle
**D.** A hamburger

---

46. Which would you measure in grams?

**A.** Weight of a penny
**B.** Weight of a table
**C.** Weight of an elephant
**D.** Weight of a chair

---

47. Which would you measure in milliliters?

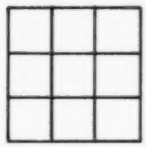
**A.** Milk in a glass
**B.** Water in a bathtub
**C.** Water in a pool
**D.** Gasoline in a car

---

48. Which would you measure in kilograms?

**A.** Weight of a book
**B.** Weight of a television
**C.** Weight of a newspaper
**D.** Weight of an eraser

49. The _____ of a figure is the number of square units that cover it.



**A.** Perimeter
**B.** Area
**C.** Length
**D.** Volume

---

50. The distance around a closed figure is called the _____.

**A.** Perimeter
**B.** Area
**C.** Volume
**D.** Radius

---

51. The _____ of a box is the number of cubic units that fit inside it.

**A.** Length
**B.** Perimeter
**C.** Area
**D.** Volume

---

52. Which has a perimeter?

**A.**

**C.**

**B.**

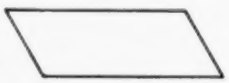
**D.**

53. Match the picture with its name

**A.** Quadrilateral
**B.** Triangle
**C.** Rectangle
**D.** Square

---

54. Which is an octagon?

**A.** 

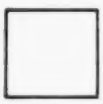
**B.**

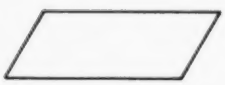
**C.**

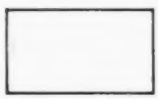
**D.**

---

55. Which is **not** a rectangle?

**A.** 

**B.** 

**C.** 

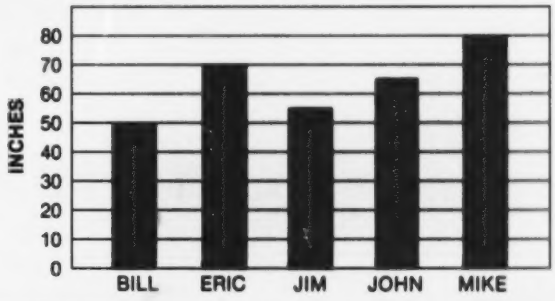
**D.**

---

56. A 6-sided closed figure is a

**A.** Quadrilateral
**B.** Hexagon
**C.** Pentagon
**D.** Parallelogram

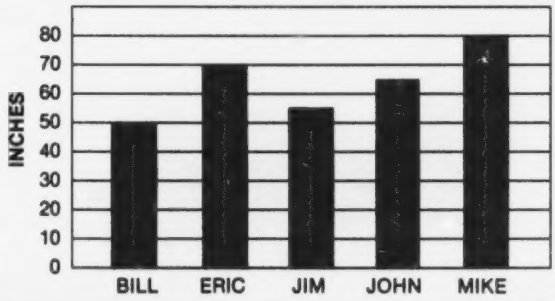
57. Which boy is tallest?




A. Eric
B. John
C. Mike
D. Bill

---

58. Which boy is the shortest?




A. Jim
B. Bill
C. Eric
D. John

---

59. Sally, Bill and Suzi were playing a game. The table shows how many times they won. How many games did Bill win?

| Person | Number of Wins |
|---|---|
| Sally | 𝍸 𝍸 \|\| |
| Bill | 𝍸 \|\| |
| Suzi | 𝍸 𝍸 \| |
| Total | 30 |

A. 3
B. 6
C. 12
D. 7

---

60. Who won the most games?

| Person | Number of Wins |
|---|---|
| Sally | 𝍸 𝍸 \|\| |
| Bill | 𝍸 \|\| |
| Suzi | 𝍸 𝍸 \| |
| Total | 30 |

A. Sally
B. Bill
C. Suzi
D. A tie

61. Terry picks 3 tomatoes. Martha picks 4 more. How many is that?

**A.** 1 tomato
**B.** 6 tomatoes
**C.** 7 tomatoes
**D.** 12 tomatoes

---

62. Leon has 16 seeds. He plants 8. How many does Leon have left?

**A.** 2 seeds
**B.** 8 seeds
**C.** 25 seeds
**D.** 128 seeds

---

63. Sue had 9 dimes. Her mother gave her 8 more. How many dimes does she have now?

**A.** 8 × 9 = 72
**B.** 9 − 8 = 1
**C.** 9 + 8 = 17
**D.** 9 + 8 = 1

---

64. There were 5 innings in a baseball game. 4 runs were scored in each inning. How many runs were scored in all?

**A.** 1
**B.** 4
**C.** 9
**D.** 20

---

65. You will need a calculator for this part of the test.

**Grade 4 - Level A  Test items 1 thru 48**

MM3-B ANSW. KEY 41  GRADE 4A 10/01/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| | | | 18 | 4005-18 | 4 | 36 | 4009-36 | 3 |
| 1 | 4001-1 | 4 | 19 | 4005-19 | 2 | 37 | 4010-37 | 2 |
| 2 | 4001-2 | 2 | 20 | 4005-20 | 4 | 38 | 4010-38 | 3 |
| 3 | 4001-3 | 3 | 21 | 4006-21 | 4 | 39 | 4010-39 | 2 |
| 4 | 4001-4 | 4 | 22 | 4006-22 | 3 | 40 | 4010-40 | 3 |
| 5 | 4002-5 | 3 | 23 | 4006-23 | 2 | 41 | 4011-41 | 1 |
| 6 | 4002-6 | 1 | 24 | 4006-24 | 2 | 42 | 4011-42 | 4 |
| 7 | 4002-7 | 1 | 25 | 4007-25 | 4 | 43 | 4011-43 | 4 |
| 8 | 4002-8 | 3 | 26 | 4007-26 | 1 | 44 | 4011-44 | 2 |
| 9 | 4003-9 | 4 | 27 | 4007-27 | 3 | 45 | 4012-45 | 3 |
| 10 | 4003-10 | 3 | 28 | 4007-28 | 1 | 46 | 4012-46 | 1 |
| 11 | 4003-11 | 4 | 29 | 4008-29 | 2 | 47 | 4012-47 | 1 |
| 12 | 4003-12 | 4 | 30 | 4008-30 | 3 | 48 | 4012-48 | 2 |
| 13 | 4004-13 | 1 | 31 | 4008-31 | 2 | | | |
| 14 | 4004-14 | 2 | 32 | 4008-32 | 1 | | | |
| 15 | 4004-15 | 1 | 33 | 4009-33 | 1 | | | |
| 16 | 4004-16 | 1 | 34 | 4009-34 | 3 | | | |
| 17 | 4005-17 | 3 | 35 | 4009-35 | 4 | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

**Grade 4 - Level A  Test items 49 thru 65**

MM3-8 ANSW. KEY 42  GRADE 4A 10/01/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| 1 | 4013-49 | 2 | | | | | | |
| 2 | 4013-50 | 1 | | | | | | |
| 3 | 4013-51 | 4 | | | | | | |
| 4 | 4013-52 | 2 | | | | | | |
| 5 | 4014-53 | 1 | | | | | | |
| 6 | 4014-54 | 4 | | | | | | |
| 7 | 4014-55 | 2 | | | | | | |
| 8 | 4014-56 | 2 | | | | | | |
| 9 | 4015-57 | 3 | | | | | | |
| 10 | 4015-58 | 2 | | | | | | |
| 11 | 4015-59 | 4 | | | | | | |
| 12 | 4015-60 | 1 | | | | | | |
| 13 | 4016-61 | 3 | | | | | | |
| 14 | 4016-62 | 2 | | | | | | |
| 15 | 4016-63 | 3 | | | | | | |
| 16 | 4016-64 | 4 | | | | | | |
| 17 | 4017-65 | 1 | | | | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 4
Form B

# MATH

## WEST BLOOMFIELD SCHOOL DISTRICT

## OUTCOME BASED

## MASTERY

## LEARNING PROGRAM

1. In 4<u>5</u>6,281 the 5 stands for

**A.** 50
**B.** 5000
**C.** 50,000
**D.** 500,000

---

2. In <u>8</u>00,325 the 8 stands for

**A.** 800
**B.** 8000
**C.** 80,000
**D.** 800,000

---

3. In 48,<u>9</u>65 the 9 stands for

**A.** 90
**B.** 900
**C.** 9000
**D.** 90,000

---

4. In 39<u>4</u>,761 the 4 stands for

**A.** 400
**B.** 4000
**C.** 40,000
**D.** 400,000

5. 22 rounded to the nearest 10 is

**A.** 0
**B.** 20
**C.** 25
**D.** 30

---

6. 185 rounded to the nearest 10 is

**A.** 170
**B.** 180
**C.** 190
**D.** 200

---

7. 272 rounded to the nearest 100 is

**A.** 200
**B.** 270
**C.** 280
**D.** 300

---

8. 745 rounded to the nearest 100 is

**A.** 600
**B.** 700
**C.** 750
**D.** 800

**ADD**

9.

$$\begin{array}{r} 187 \\ +213 \\ \hline \end{array}$$

**A.** 394
**B.** 399
**C.** 400
**D.** 401

---

10.

$$\begin{array}{r} 17 \\ 31 \\ +34 \\ \hline \end{array}$$

**A.** 72
**B.** 73
**C.** 81
**D.** 82

---

11.

$$\begin{array}{r} 526 \\ 328 \\ +789 \\ \hline \end{array}$$

**A.** 1543
**B.** 1643
**C.** 1653
**D.** 1654

---

12.

$$\begin{array}{r} 3145 \\ +2035 \\ \hline \end{array}$$

**A.** 5170
**B.** 5180
**C.** 5270
**D.** 5280

## SUBTRACT

13.

$$\begin{array}{r} 8216 \\ -2149 \\ \hline \end{array}$$

**A.** 5067
**B.** 5133
**C.** 6067
**D.** 6133

---

14.

$$\begin{array}{r} 612 \\ -258 \\ \hline \end{array}$$

**A.** 344
**B.** 354
**C.** 444
**D.** 454

---

15.

$$\begin{array}{r} 7860 \\ -5270 \\ \hline \end{array}$$

**A.** 1510
**B.** 2510
**C.** 2590
**D.** 2690

---

16.

$$\begin{array}{r} 6468 \\ -4459 \\ \hline \end{array}$$

**A.** 1001
**B.** 1009
**C.** 1909
**D.** 2009

## MULTIPLY

17.

673
× 9

A. 6057
B. 6059
C. 6127
D. 7127

---

18.

112
× 5

A. 550
B. 560
C. 610
D. 660

---

19.

386
× 2

A. 672
B. 762
C. 768
D. 772

---

20.

411
× 9

A. 3699
B. 3709
C. 4509
D. 4599

**DIVIDE**

21. $2\overline{)79}$

**A.** 39 R 1
**B.** 34
**C.** 34 R 1
**D.** 38 R 1

---

22. $8\overline{)97}$

**A.** 10 R 7
**B.** 12
**C.** 12 R 1
**D.** 13 R 3

---

23. $6\overline{)98}$

**A.** 14 R 4
**B.** 16 R 2
**C.** 16 R 3
**D.** 16 R 4

---

24. $4\overline{)78}$

**A.** 12
**B.** 12 R 2
**C.** 19 R 2
**D.** 29 R 2

25. Which is true?

**A.** $\frac{3}{8} < \frac{1}{8}$
**B.** $\frac{1}{6} < \frac{5}{6}$
**C.** $\frac{4}{5} < \frac{3}{5}$
**D.** $\frac{2}{7} < \frac{1}{7}$

---

26. Which is true?

**A.** $\frac{4}{6} < \frac{6}{6}$
**B.** $\frac{3}{4} < \frac{2}{4}$
**C.** $\frac{7}{8} < \frac{2}{8}$
**D.** $\frac{3}{5} < \frac{1}{5}$

---

27. Which is true?

**A.** $\frac{5}{8} > \frac{6}{8}$
**B.** $\frac{3}{6} > \frac{4}{6}$
**C.** $\frac{2}{6} > \frac{1}{6}$
**D.** $\frac{2}{8} > \frac{7}{8}$

---

28. Which is true?

**A.** $\frac{2}{3} > \frac{3}{3}$
**B.** $\frac{1}{5} > \frac{5}{5}$
**C.** $\frac{0}{8} > \frac{1}{8}$
**D.** $\frac{1}{7} > \frac{0}{7}$

## SOLVE

29.

$\frac{5}{8} + \frac{2}{8} =$

**A.** $\frac{3}{8}$
**B.** $\frac{7}{8}$
**C.** $\frac{10}{8}$
**D.** $\frac{7}{16}$

---

30.

$\frac{4}{6} + \frac{1}{6} =$

**A.** $\frac{3}{6}$
**B.** $\frac{4}{6}$
**C.** $\frac{5}{6}$
**D.** $\frac{5}{12}$

---

31.

$\frac{5}{6} - \frac{3}{6} =$

**A.** $\frac{2}{0}$
**B.** $\frac{8}{0}$
**C.** $\frac{2}{6}$
**D.** $\frac{2}{1}$

---

32.

$\frac{4}{4} - \frac{2}{4} =$

**A.** 0
**B.** $\frac{2}{0}$
**C.** $\frac{6}{0}$
**D.** $\frac{2}{4}$

## CHOOSE THE CORRECT WAY TO SHOW THE AMOUNT OF MONEY

33. 7 dollars and 60 cents

**A.** $7.06
**B.** 7.60¢
**C.** $760
**D.** $7.60

---

34. 2 nickels and 4 pennies

**A.** 7¢
**B.** 9¢
**C.** 24¢
**D.** 14¢

---

35. 2 half dollars and 1 dime

**A.** 60¢
**B.** $2.10
**C.** $1.10
**D.** $1.25

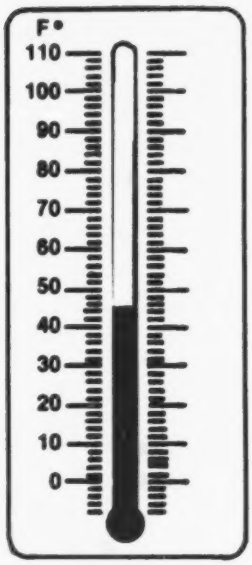
---

36. 18 dollars and 35 cents

**A.** 18.35¢
**B.** $18.35
**C.** $35.18
**D.** $1835

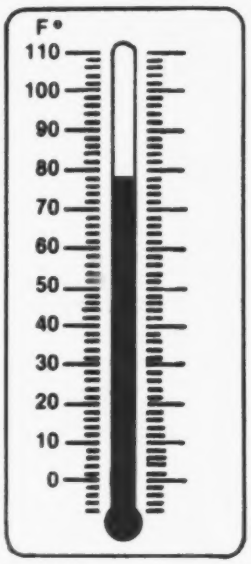
# READ THE TEMPERATURE

37.



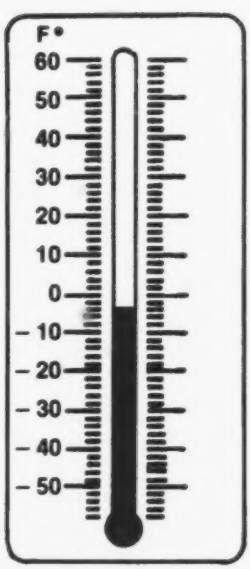

A. 45°
B. –40°
C. 40°
D. 50°

38.



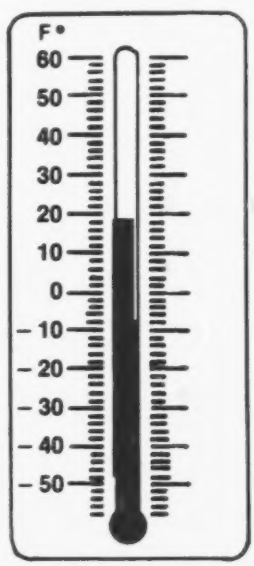

A. 80°
B. 75°
C. 78°
D. 72°

39.




A. 5°
B. 4°
C. –16°
D. – 4°

40.




A. 18°
B. 21°
C. 15°
D. 22°

41. Which would you measure in miles?

**A.** Length of an airplane
**B.** Width of Lake Huron
**C.** Width of a sidewalk
**D.** Length of a school

---

42. Which would you measure in ounces?

**A.** Weight of a letter
**B.** Weight of a paper clip
**C.** Weight of a tire
**D.** Weight of a dog

---

43. Which would you measure in pounds?

**A.** Weight of a pumpkin
**B.** Weight of a cupcake
**C.** Weight of a tennis ball
**D.** Weight of a ruler

---

44. Which would you measure in tons?

**A.** Weight of a table
**B.** Weight of a blue whale
**C.** Weight of a tiger
**D.** Weight of a sheep

45. Which would you measure in grams?

**A.** Weight of an ostrich
**B.** Weight of a car
**C.** Weight of an oven
**D.** Weight of a straw

---

46. Which would you measure in milliliters?

**A.** Liquid in an eyedropper
**B.** Water in a pail
**C.** Water in a water heater
**D.** Oil in a fuel truck

---

47. Which would you measure in grams?

**A.** Weight of a zebra
**B.** Weight of a peanut
**C.** Weight of a monkey
**D.** Weight of barbells

---

48. Which would you measure in kilograms?

**A.** Weight of a butterfly
**B.** Weight of a hot dog
**C.** Weight of your Math book
**D.** Weight of a human

49. When we find the number of square units it takes to cover a figure, we find the _____ .

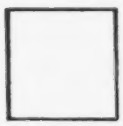
**A.** Area
**B.** Volume
**C.** Square
**D.** Weight

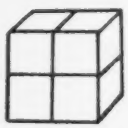
---

50. Which has a volume?

**A.**

**C.**

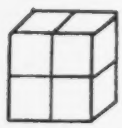
**B.** 

**D.** 

---

51. Which has an area of 4 square units?

**A.**

**C.** 

**B.**

**D.**

---

52. To find the length of a fence to go around a yard, you need to measure the _____ of the yard.

**A.** Area
**B.** Perimeter
**C.** Volume
**D.** Angles

53. Which is a hexagon?

A.

C.

B.

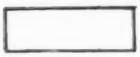
D.

---

54. Which is <u>not</u> a quadrilateral?

A.

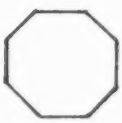
C.

B. 

D.

---

55. Match the picture with its name.

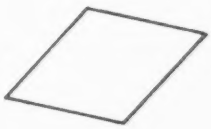


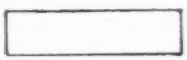
**A.** Hexagon
**B.** Quadrilateral
**C.** Octagon
**D.** Parallelogram

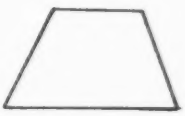
---

56. Which is a rectangle?

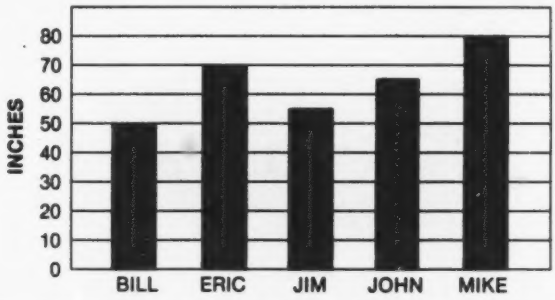
A.

C. 

B. 

D. 

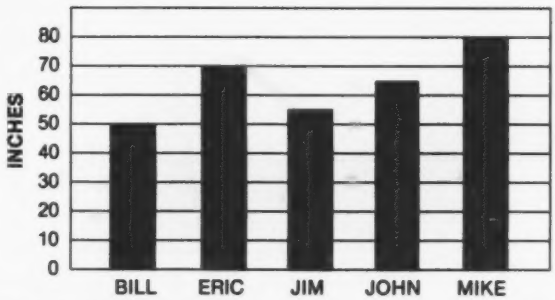
57. Which boy is about 65 inches tall?




**A.** Eric
**B.** Mike
**C.** John
**D.** Jim

---

58. Which boys are shorter than John?




**A.** Bill and Jim
**B.** Eric and Jim
**C.** Bill and Eric
**D.** Mike and Eric

---

59. How many more 3-letter words than 2-letter words?

| Number of Letters | Number of words with that many letters | Number of Letters | Number of words with that many letters |
|---|---|---|---|
| 1 | \| | 6 | \|\|\|\| |
| 2 | 𝍸 \|\| | 7 | |
| 3 | 𝍸 𝍸 \|\| | 8 | |
| 4 | 𝍸 𝍸 𝍸 \| | 9 | \| |
| 5 | 𝍸 | 10 | |
| | | 11 | \| |

**A.** 2
**B.** 3
**C.** 5
**D.** 10

---

60. How many 6-letter words?

| Number of Letters | Number of words with that many letters | Number of Letters | Number of words with that many letters |
|---|---|---|---|
| 1 | \| | 6 | \|\|\|\| |
| 2 | 𝍸 \|\| | 7 | |
| 3 | 𝍸 𝍸 \|\| | 8 | |
| 4 | 𝍸 𝍸 𝍸 \| | 9 | \| |
| 5 | 𝍸 | 10 | |
| | | 11 | \| |

**A.** 4
**B.** 5
**C.** 6
**D.** 10

61. If each child needs 2 pencils, how many pencils will 3 children need?

**A.** 3 **C.** 6
**B.** 5 **D.** 8

---

62. If there is room to park 6 cars in a row, how many rows will be needed to park 30 cars?

**A.** 5 **C.** 30
**B.** 6 **D.** 180

---

63. Ted has 37 kinds of rocks. Carol has 21 kinds of rocks. How many more kinds of rocks does Ted have than Carol? Which is correct?

**A.** 37 + 21 = 58 **C.** 37 − 21 = 16
**B.** 37 + 21 = 56 **D.** 37 − 21 = 26

---

64. Jack has 57 baseball cards, Nancy has 30 baseball cards, and Eric has 22 baseball cards. How many cards are there in all?

**A.** 27 **C.** 99
**B.** 57 **D.** 109

---

65. You will need a calculator for this part of the test.

**Grade 4 - Level B  Test items 1  thru 48**

MM3-8 ANSW. KEY 43  GRADE 4B 10/02/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| | | | 18 | 4005-18 | 2 | 36 | 4009-36 | 2 |
| 1 | 4001-1 | 3 | 19 | 4005-19 | 4 | 37 | 4010-37 | 1 |
| 2 | 4001-2 | 4 | 20 | 4005-20 | 1 | 38 | 4010-38 | 3 |
| 3 | 4001-3 | 2 | 21 | 4006-21 | 1 | 39 | 4010-39 | 4 |
| 4 | 4001-4 | 2 | 22 | 4006-22 | 3 | 40 | 4010-40 | 1 |
| 5 | 4002-5 | 2 | 23 | 4006-23 | 2 | 41 | 4011-41 | 2 |
| 6 | 4002-6 | 3 | 24 | 4006-24 | 3 | 42 | 4011-42 | 1 |
| 7 | 4002-7 | 4 | 25 | 4007-25 | 2 | 43 | 4011-43 | 1 |
| 8 | 4002-8 | 2 | 26 | 4007-26 | 1 | 44 | 4011-44 | 2 |
| 9 | 4003-9 | 3 | 27 | 4007-27 | 3 | 45 | 4012-45 | 4 |
| 10 | 4003-10 | 4 | 28 | 4007-28 | 4 | 46 | 4012-46 | 1 |
| 11 | 4003-11 | 2 | 29 | 4008-29 | 2 | 47 | 4012-47 | 2 |
| 12 | 4003-12 | 2 | 30 | 4008-30 | 3 | 48 | 4012-48 | 4 |
| 13 | 4004-13 | 3 | 31 | 4008-31 | 3 | | | |
| 14 | 4004-14 | 2 | 32 | 4008-32 | 4 | | | |
| 15 | 4004-15 | 3 | 33 | 4009-33 | 4 | | | |
| 16 | 4004-16 | 4 | 34 | 4009-34 | 4 | | | |
| 17 | 4005-17 | 1 | 35 | 4009-35 | 3 | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

**Grade 4 - Level B  Test items 49 thru 65**

MM3-B ANSW. KEY 44  GRADE 4B 10/02/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| 1 | 4013-1 | 1 | | | | | | |
| 2 | 4013-2 | 4 | | | | | | |
| 3 | 4013-3 | 2 | | | | | | |
| 4 | 4013-4 | 2 | | | | | | |
| 5 | 4014-5 | 1 | | | | | | |
| 6 | 4014-6 | 4 | | | | | | |
| 7 | 4014-7 | 3 | | | | | | |
| 8 | 4014-8 | 2 | | | | | | |
| 9 | 4015-9 | 3 | | | | | | |
| 10 | 4015-10 | 1 | | | | | | |
| 11 | 4015-11 | 3 | | | | | | |
| 12 | 4015-12 | 1 | | | | | | |
| 13 | 4016-13 | 3 | | | | | | |
| 14 | 4016-14 | 1 | | | | | | |
| 15 | 4016-15 | 3 | | | | | | |
| 16 | 4016-16 | 4 | | | | | | |
| 17 | 4017-17 | 1 | | | | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 5
Form A

# MATH

## WEST BLOOMFIELD SCHOOL DISTRICT

## OUTCOME BASED

## MASTERY

## LEARNING PROGRAM

1. What does the 7 stand for in 3,7̲68,425?

**A.** 7 millions
**B.** 7 hundred thousands
**C.** 7 ten thousands
**D.** 7 thousands

---

2. What does the 5 stand for in 4,965̲,437?

**A.** 5 tens
**B.** 5 hundreds
**C.** 5 thousands
**D.** 5 millions

---

3. What does the 3 stand for in 7,645,63̲2?

**A.** 3 tens
**B.** 3 hundreds
**C.** 3 thousands
**D.** 3 millions

---

4. What does the 8 stand for in 3,549,8̲26?

**A.** 8 tens
**B.** 8 hundreds
**C.** 8 thousands
**D.** 8 millions

5. Solve for n

$14 + n = 31$

**A.** 17
**B.** 23
**C.** 27
**D.** 45

---

6. Solve for n

$n - 3 = 14$

**A.** 11
**B.** 17
**C.** 20
**D.** 27

---

7. Solve for n

$n + 28 = 33$

**A.** 5
**B.** 15
**C.** 51
**D.** 61

---

8. Solve for n

$16 - n = 3$

**A.** 3
**B.** 9
**C.** 13
**D.** 19

**SOLVE**

9.

$$\begin{array}{r} 8{,}080 \\ -\ 542 \\ \hline \end{array}$$

**A.** 7,437
**B.** 7,538
**C.** 8,542
**D.** 8,548

---

10.

$$\begin{array}{r} 52{,}634 \\ -\ 5{,}742 \\ \hline \end{array}$$

**A.** 44,792
**B.** 46,892
**C.** 53,112
**D.** 58,376

---

11.

$$\begin{array}{r} 38{,}246 \\ +\ 5{,}642 \\ \hline \end{array}$$

**A.** 32,604
**B.** 33,404
**C.** 33,888
**D.** 43,888

---

12.

$$\begin{array}{r} 30{,}968 \\ +\ 8{,}061 \\ \hline \end{array}$$

**A.** 22,907
**B.** 39,029
**C.** 37,929
**D.** 111,029

## ESTIMATE THE SUM OR DIFFERENCE

13.

$$\begin{array}{r} 625 \\ +282 \\ \hline \end{array}$$

**A.** 300
**B.** 800
**C.** 900
**D.** 1,000

---

14.

$$\begin{array}{r} 721 \\ -492 \\ \hline \end{array}$$

**A.** 200
**B.** 300
**C.** 400
**D.** 1,200

---

15.

$$\begin{array}{r} 382 \\ +382 \\ \hline \end{array}$$

**A.** 600
**B.** 700
**C.** 800
**D.** 900

---

16.

$$\begin{array}{r} 916 \\ -776 \\ \hline \end{array}$$

**A.** 100
**B.** 200
**C.** 300
**D.** 400

## MULTIPLY

17.

$$\begin{array}{r} 53 \\ \times 27 \\ \hline \end{array}$$

**A.** 477
**B.** 1,331
**C.** 1,391
**D.** 1,431

---

18.

$$\begin{array}{r} 73 \\ \times 27 \\ \hline \end{array}$$

**A.** 1,951
**B.** 1,961
**C.** 1,971
**D.** 1,978

---

19.

$$\begin{array}{r} 58 \\ \times 39 \\ \hline \end{array}$$

**A.** 696
**B.** 2,182
**C.** 2,262
**D.** 2,264

---

20.

$$\begin{array}{r} 78 \\ \times 34 \\ \hline \end{array}$$

**A.** 546
**B.** 2,422
**C.** 2,564
**D.** 2,652

**DIVIDE**

21. $3\overline{)744}$

**A.** 211
**B.** 244
**C.** 248
**D.** 258

---

22. $7\overline{)493}$

**A.** 40 R 3
**B.** 50 R 3
**C.** 60 R 3
**D.** 70 R 3

---

23. $5\overline{)164}$

**A.** 33 R 1
**B.** 32 R 4
**C.** 34 R 4
**D.** 43 R 4

---

24. $7\overline{)674}$

**A.** 86 R 3
**B.** 90 R 4
**C.** 96 R 2
**D.** 99 R 3

25. Which is true?

**A.** $\frac{5}{8} = \frac{3}{8}$
**B.** $\frac{5}{8} > \frac{3}{8}$
**C.** $\frac{5}{8} < \frac{3}{8}$
**D.** $\frac{3}{8} > \frac{5}{8}$

---

26. Which is true?

**A.** $\frac{5}{8} = \frac{7}{8}$
**B.** $\frac{5}{8} > \frac{7}{8}$
**C.** $\frac{7}{8} > \frac{5}{8}$
**D.** $\frac{7}{8} < \frac{5}{8}$

---

27. Which is true?

**A.** $\frac{7}{16} < \frac{8}{16}$
**B.** $\frac{7}{16} = \frac{8}{16}$
**C.** $\frac{7}{16} > \frac{8}{16}$
**D.** $\frac{8}{16} < \frac{7}{16}$

---

28. Which is true?

**A.** $12\frac{3}{5} < 12\frac{3}{5}$
**B.** $12\frac{2}{5} > 12\frac{3}{5}$
**C.** $12\frac{3}{5} > 12\frac{3}{5}$
**D.** $12\frac{3}{5} = 12\frac{3}{5}$

## SOLVE

29.

$$\begin{array}{r} 8\frac{7}{12} \\ +4\frac{1}{12} \\ \hline \end{array}$$

A. $12\frac{8}{24}$
B. $12\frac{8}{12}$
C. $12\frac{6}{12}$
D. $4\frac{6}{12}$

---

30.

$$\begin{array}{r} \frac{4}{9} \\ +\frac{2}{9} \\ \hline \end{array}$$

A. $\frac{6}{9}$
B. $\frac{3}{9}$
C. $\frac{6}{18}$
D. $\frac{6}{81}$

---

31.

$$\begin{array}{r} \frac{3}{10} \\ -\frac{1}{10} \\ \hline \end{array}$$

A. $\frac{4}{20}$
B. $\frac{4}{10}$
C. $\frac{2}{20}$
D. $\frac{2}{10}$

---

32.

$$\begin{array}{r} 8\frac{8}{9} \\ -3\frac{4}{9} \\ \hline \end{array}$$

A. $5\frac{4}{18}$
B. $4\frac{4}{9}$
C. $5\frac{4}{9}$
D. $5\frac{4}{0}$

33. What does the 5 mean in 47.05?

**A.** 5 hundreds
**B.** 5 tens
**C.** 5 tenths
**D.** 5 hundredths

---

34. What does the 4 mean in 32.45?

**A.** 4 ones
**B.** 4 tens
**C.** 4 tenths
**D.** 4 hundredths

---

35. What does the 7 mean in 75.06?

**A.** 7 tens
**B.** 7 tenths
**C.** 7 ones
**D.** 7 hundredths

---

36. What does the 3 mean in 43.68?

**A.** 3 tens
**B.** 3 ones
**C.** 3 tenths
**D.** 3 hundredths

**SOLVE**

37.

$$\begin{array}{r} 2.78 \\ +\,32.5 \\ \hline \end{array}$$

**A.** 3,528
**B.** 35.28
**C.** 6.03
**D.** 60.3

---

38.

$$\begin{array}{r} 73.5 \\ -\ 5.8 \\ \hline \end{array}$$

**A.** 67.7
**B.** 72.3
**C.** 57.7
**D.** 6.77

---

39.

$$\begin{array}{r} 58.2 \\ -26.34 \\ \hline \end{array}$$

**A.** 31.96
**B.** 31.94
**C.** 31.84
**D.** 31.86

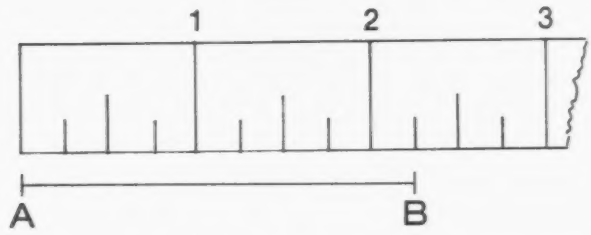
---

40.

$$\begin{array}{r} 43.2 \\ +\ 9.54 \\ \hline \end{array}$$

**A.** 49.54
**B.** 42.74
**C.** 52.74
**D.** 53.74

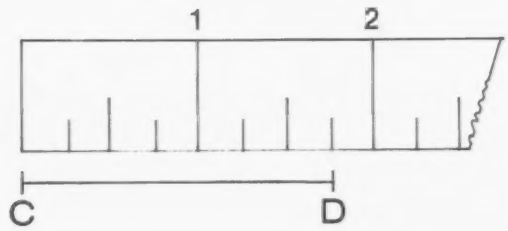
41. How long is $\overline{AB}$?




**A.** $2\frac{2}{4}$ in.
**B.** $\frac{1}{4}$ in.
**C.** $2\frac{1}{4}$ in.
**D.** 2 in.

---

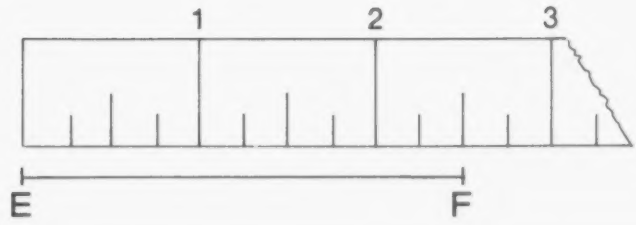
42. How long is $\overline{CD}$?




**A.** $1\frac{1}{4}$ in.
**B.** $1\frac{3}{4}$ in.
**C.** $1\frac{1}{2}$ in.
**D.** $2\frac{1}{4}$ in.

---

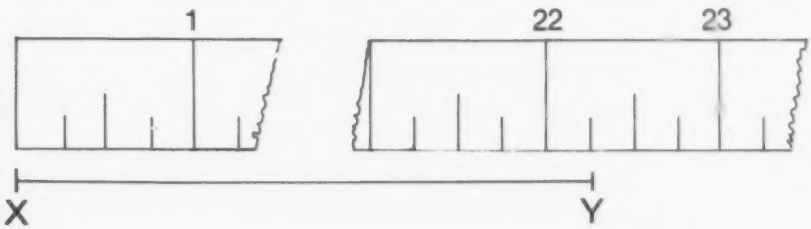
43. How long is $\overline{EF}$?




**A.** $3\frac{1}{2}$ in.
**B.** $3\frac{1}{4}$ in.
**C.** $2\frac{3}{4}$ in.
**D.** $2\frac{1}{2}$ in.

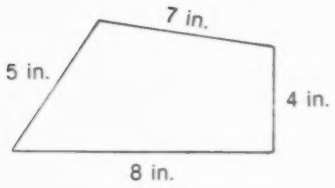
---

44. How long is $\overline{XY}$?




**A.** $22\frac{1}{2}$ in.
**B.** $22\frac{2}{4}$ in.
**C.** $22\frac{1}{4}$ in.
**D.** $23\frac{3}{4}$ in.

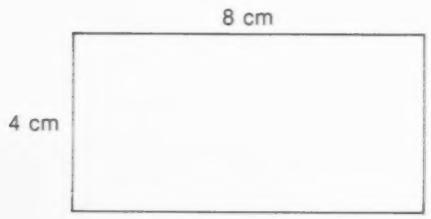
45. What is the perimeter of the polygon?




**A.** 24 in.
**B.** 24 square in.
**C.** 1,120 in.
**D.** 1,120 square in.

---

46. What is the perimeter of the polygon?




**A.** 12 cm
**B.** 24 cm
**C.** 32 cm
**D.** 32 square cm

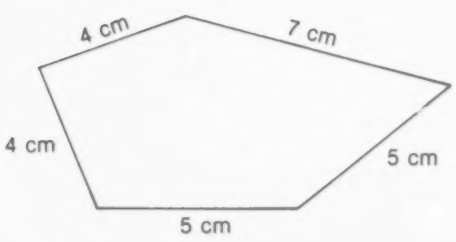
---

47. What is the perimeter of the polygon?

**A.** 6 mm
**B.** 12 mm
**C.** 24 mm
**D.** 36 mm

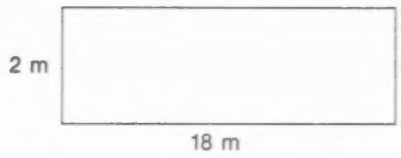
---

48. What is the perimeter of the polygon?




**A.** 16 cm
**B.** 18 cm
**C.** 25 cm
**D.** 2,800 cm

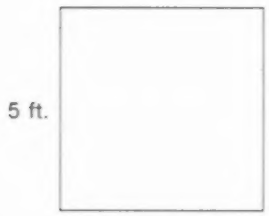
49. What is the area?




**A.** 20 m
**B.** 36 m
**C.** 36 square m
**D.** 40 square m

---

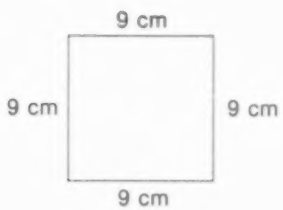
50. What is the area?




**A.** 10 ft.
**B.** 20 square ft.
**C.** 25 ft.
**D.** 25 square ft.

---

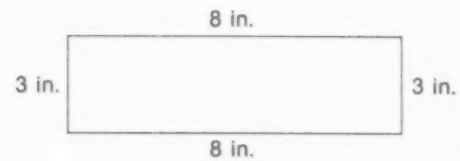
51. What is the area?




**A.** 18 cm
**B.** 36 square cm
**C.** 81 square cm
**D.** 81 cm

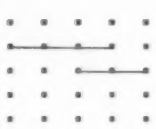
---

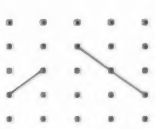
52. What is the area?

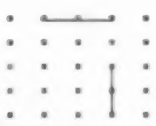


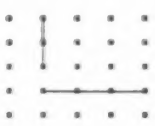

**A.** 24 in.
**B.** 24 square in.
**C.** 11 in.
**D.** 22 square in.

53. In which picture are the segments congruent?

A. 

B. 

C. 

D. 

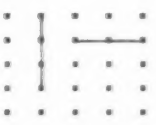
---

54. In which picture are the segments congruent?

A.

B.

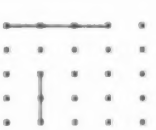
C.

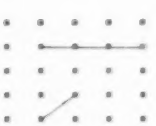
D. 

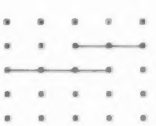
---

55. In which picture are the segments congruent?

A.

B. 

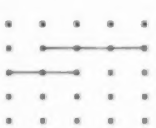
C. 

D. 

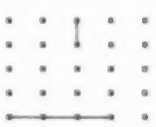
---

56. In which picture are the segments congruent?

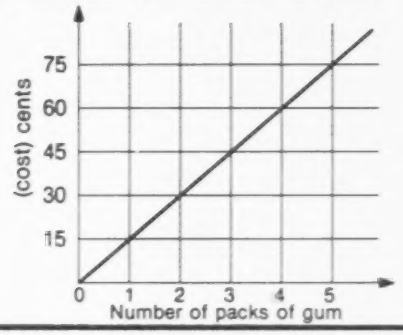
A.

B. 

C.

D. 

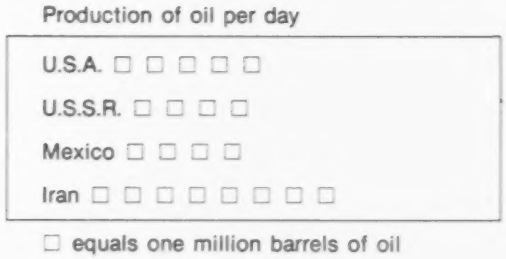
57. What is the cost of 3 packs of gum?




**A.** 60 cents
**B.** 30 cents
**C.** 45 cents
**D.** 15 cents

---

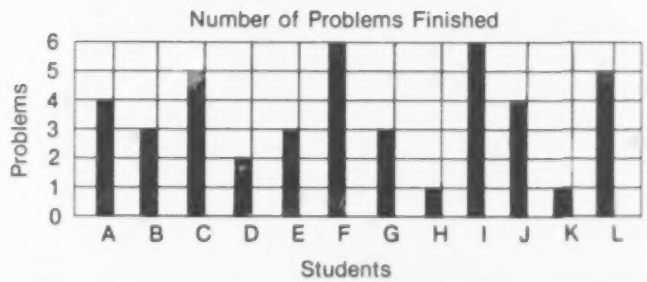
58. Mexico produces how many barrels of oil per day?




**A.** 4
**B.** 4 million
**C.** $3\frac{1}{2}$ million
**D.** $3\frac{1}{2}$ thousand

---

59. How many students finished three problems?




**A.** 3
**B.** 2
**C.** 4
**D.** 0

---

60. Use the graph in number 59. How many problems were finished in all?

**A.** 41
**B.** 42
**C.** 43
**D.** 44

61. Find the average of

22, 12, 14, 16

**A.** 16
**B.** 18
**C.** 64
**D.** 74

---

62. Find the average of

23, 42, 22, 58, 65

**A.** 22
**B.** 40
**C.** 42
**D.** 210

---

63. Find the average of

10, 20, 30, 40, 50

**A.** 20
**B.** 30
**C.** 140
**D.** 150

---

64. Find the average of

82, 68, 90

**A.** 80
**B.** 82
**C.** 240
**D.** 250

**CHOOSE THE OPERATION NEEDED TO SOLVE THE PROBLEMS**

65. The workers of the Quickie Bakery baked 48 loaves of bread in the morning. By the end of the day, they had baked 104 loaves. How many loaves did they bake in the afternoon?

**A.** Add
**B.** Subtract
**C.** Multiply
**D.** Divide

---

66. Each library book is 4 cm wide. How many books will fit on a shelf 48 cm long?

**A.** Add
**B.** Subtract
**C.** Multiply
**D.** Divide

---

67. John can build 4 birdhouses in one week. How many can he build in 52 weeks?

**A.** Add
**B.** Subtract
**C.** Multiply
**D.** Divide

---

68. Sara has 23 books, Mary has 46 books, Doug has 18 books, and Joe has 102 books. How many books do they have in all?

**A.** Add
**B.** Subtract
**C.** Multiply
**D.** Divide

**Grade 5 - Level A  Test items 1 thru 48**

MM3-B ANSW. KEY 51  GRADE 5A 10/01/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| | | | 18 | 5005-18 | 3 | 36 | 5009-36 | 2 |
| 1 | 5001-1 | 2 | 19 | 5005-19 | 3 | 37 | 5010-37 | 2 |
| 2 | 5001-2 | 3 | 20 | 5005-20 | 4 | 38 | 5010-38 | 1 |
| 3 | 5001-3 | 1 | 21 | 5006-21 | 3 | 39 | 5010-39 | 4 |
| 4 | 5001-4 | 2 | 22 | 5006-22 | 4 | 40 | 5010-40 | 3 |
| 5 | 5002-5 | 1 | 23 | 5006-23 | 2 | 41 | 5011-41 | 3 |
| 6 | 5002-6 | 2 | 24 | 5006-24 | 3 | 42 | 5011-42 | 2 |
| 7 | 5002-7 | 1 | 25 | 5007-25 | 2 | 43 | 5011-43 | 4 |
| 8 | 5002-8 | 3 | 26 | 5007-26 | 3 | 44 | 5011-44 | 3 |
| 9 | 5003-9 | 2 | 27 | 5007-27 | 1 | 45 | 5012-45 | 1 |
| 10 | 5003-10 | 2 | 28 | 5007-28 | 4 | 46 | 5012-46 | 2 |
| 11 | 5003-11 | 4 | 29 | 5008-29 | 2 | 47 | 5012-47 | 3 |
| 12 | 5003-12 | 2 | 30 | 5008-30 | 1 | 48 | 5012-48 | 3 |
| 13 | 5004-13 | 3 | 31 | 5008-31 | 4 | | | |
| 14 | 5004-14 | 1 | 32 | 5008-32 | 3 | | | |
| 15 | 5004-15 | 3 | 33 | 5009-33 | 4 | | | |
| 16 | 5004-16 | 1 | 34 | 5009-34 | 3 | | | |
| 17 | 5005-17 | 4 | 35 | 5009-35 | 1 | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

## Grade 5 - Level A  Test items 49 thru 68

NSW. KEY 52  GRADE 5A 10/01/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| | | | 18 | 5017-66 | 4 | | | |
| 1 | 5013-49 | 3 | 19 | 5017-67 | 3 | | | |
| 2 | 5013-50 | 4 | 20 | 5017-68 | 1 | | | |
| 3 | 5013-51 | 3 | | | | | | |
| 4 | 5013-52 | 2 | | | | | | |
| 5 | 5014-53 | 3 | | | | | | |
| 6 | 5014-54 | 2 | | | | | | |
| 7 | 5014-55 | 1 | | | | | | |
| 8 | 5014-56 | 3 | | | | | | |
| 9 | 5015-57 | 3 | | | | | | |
| 10 | 5015-58 | 2 | | | | | | |
| 11 | 5015-59 | 1 | | | | | | |
| 12 | 5015-60 | 3 | | | | | | |
| 13 | 5016-61 | 1 | | | | | | |
| 14 | 5016-62 | 3 | | | | | | |
| 15 | 5016-63 | 2 | | | | | | |
| 16 | 5016-64 | 1 | | | | | | |
| 17 | 5017-65 | 2 | | | | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 5
Form B

# MATH

## WEST BLOOMFIELD SCHOOL DISTRICT

## OUTCOME BASED

## MASTERY

## LEARNING PROGRAM

1. What does the 9 stand for in 3,582,4<u>9</u>7?

**A.** 9 tens
**B.** 9 hundreds
**C.** 9 thousands
**D.** 9 millions

---

2. What does the 4 stand for in 3,7<u>4</u>5,628?

**A.** 4 tens
**B.** 4 ten thousands
**C.** 4 hundreds
**D.** 4 hundred thousands

---

3. What does the 6 stand for in <u>6</u>,233,145?

**A.** 6 thousands
**B.** 6 hundred thousands
**C.** 6 millions
**D.** 6 ten thousands

---

4. What does the 2 stand for in 7,3<u>2</u>1,096?

**A.** 2 hundreds
**B.** 2 hundred thousands
**C.** 2 thousands
**D.** 2 ten thousands

5. Solve for n

$90 - n = 36$

**A.** 54
**B.** 64
**C.** 86
**D.** 126

---

6. Solve for n

$n - 8 = 11$

**A.** 8
**B.** 9
**C.** 11
**D.** 19

---

7. Solve for n

$26 + n = 52$

**A.** 26
**B.** 33
**C.** 36
**D.** 78

---

8. Solve for n

$n + 13 = 26$

**A.** 3
**B.** 13
**C.** 39
**D.** 49

98

**SOLVE**

9.

$$\begin{array}{r} 3{,}826 \\ +\ 2{,}745 \\ \hline \end{array}$$

**A.** 1,081
**B.** 1,121
**C.** 5,561
**D.** 6,571

---

10.

$$\begin{array}{r} 5{,}827 \\ +\ 4{,}929 \\ \hline \end{array}$$

**A.** 898
**B.** 9,755
**C.** 10,746
**D.** 10,756

---

11.

$$\begin{array}{r} 3{,}006 \\ -\ 2{,}999 \\ \hline \end{array}$$

**A.** 7
**B.** 1,007
**C.** 1,117
**D.** 1,993

---

12.

$$\begin{array}{r} 5{,}230 \\ -\ 2{,}351 \\ \hline \end{array}$$

**A.** 2,878
**B.** 2,879
**C.** 2,989
**D.** 3,989

## ESTIMATE THE SUM OR DIFFERENCE BY ROUNDING

13.

$$\begin{array}{r} 926 \\ +280 \\ \hline \end{array}$$

**A.** 1,000
**B.** 1,100
**C.** 1,200
**D.** 1,300

---

14.

$$\begin{array}{r} 528 \\ -392 \\ \hline \end{array}$$

**A.** 100
**B.** 200
**C.** 800
**D.** 900

---

15.

$$\begin{array}{r} 982 \\ +228 \\ \hline \end{array}$$

**A.** 700
**B.** 1,100
**C.** 1,200
**D.** 1,300

---

16.

$$\begin{array}{r} 392 \\ -172 \\ \hline \end{array}$$

**A.** 100
**B.** 200
**C.** 400
**D.** 600

**MULTIPLY**

17.

$$\begin{array}{r} 67 \\ \times 45 \\ \hline \end{array}$$

**A.** 603
**B.** 2,945
**C.** 3,010
**D.** 3,015

---

18.

$$\begin{array}{r} 46 \\ \times 53 \\ \hline \end{array}$$

**A.** 368
**B.** 2,128
**C.** 2,438
**D.** 2,488

---

19.

$$\begin{array}{r} 89 \\ \times 67 \\ \hline \end{array}$$

**A.** 1,157
**B.** 5,403
**C.** 5,942
**D.** 5,963

---

20.

$$\begin{array}{r} 46 \\ \times 23 \\ \hline \end{array}$$

**A.** 230
**B.** 1,058
**C.** 1,064
**D.** 2,030

**DIVIDE**

21. $9\overline{)879}$

**A.** 87 R 3
**B.** 91
**C.** 95 R 4
**D.** 97 R 6

---

22. $2\overline{)161}$

**A.** 8 R 1
**B.** 80 R 1
**C.** 81
**D.** 90 R 1

---

23. $6\overline{)393}$

**A.** 60 R 3
**B.** 62 R 1
**C.** 65 R 3
**D.** 68 R 5

---

24. $3\overline{)864}$

**A.** 265 R 1
**B.** 275 R 1
**C.** 280 R 2
**D.** 288

25. Which is true?

**A.** $2\frac{3}{8} < 2\frac{7}{8}$
**B.** $2\frac{3}{8} > 2\frac{7}{8}$
**C.** $3\frac{3}{8} < 2\frac{7}{8}$
**D.** $3\frac{7}{8} > 3\frac{7}{8}$

---

26. Which is true?

**A.** $5\frac{6}{8} > 8\frac{5}{8}$
**B.** $6\frac{6}{8} > 5\frac{5}{8}$
**C.** $6\frac{5}{8} = 5\frac{6}{8}$
**D.** $8\frac{5}{8} < 5\frac{6}{8}$

---

27. Which is true?

**A.** $1\frac{3}{4} < 4\frac{3}{4}$
**B.** $2\frac{3}{4} = 3\frac{8}{4}$
**C.** $3\frac{3}{4} < 2\frac{3}{4}$
**D.** $4\frac{3}{4} < 1\frac{3}{4}$

---

28. Which is true?

**A.** $\frac{29}{100} = \frac{92}{100}$
**B.** $\frac{29}{100} > \frac{92}{100}$
**C.** $\frac{29}{100} > \frac{50}{100}$
**D.** $\frac{29}{100} > \frac{20}{100}$

**SOLVE**

29.

$$\begin{array}{r} 12\ \frac{9}{16} \\ -\ 3\ \frac{3}{16} \\ \hline \end{array}$$

**A.** $9\ \frac{6}{0}$
**B.** $9\ \frac{6}{16}$
**C.** $9\ \frac{12}{16}$
**D.** $15\ \frac{12}{16}$

---

30.

$$\begin{array}{r} 25\ \frac{7}{8} \\ -15\ \frac{2}{8} \\ \hline \end{array}$$

**A.** $40\ \frac{5}{8}$
**B.** $40\ \frac{9}{8}$
**C.** $10\ \frac{9}{8}$
**D.** $10\ \frac{5}{8}$

---

31.

$$\begin{array}{r} 15\ \frac{7}{11} \\ +\ 3\ \frac{1}{11} \\ \hline \end{array}$$

**A.** $18\ \frac{8}{11}$
**B.** $12\ \frac{6}{11}$
**C.** $18\ \frac{6}{11}$
**D.** $18\ \frac{8}{22}$

---

32.

$$\begin{array}{r} \frac{7}{16} \\ +\ \frac{3}{16} \\ \hline \end{array}$$

**A.** $\frac{11}{16}$
**B.** $\frac{4}{16}$
**C.** $\frac{10}{16}$
**D.** $\frac{10}{32}$

33. What does the 4 mean in 79.0<u>4</u>?

**A.** 4 hundredths
**B.** 4 hundreds
**C.** 4 tens
**D.** 4 tenths

---

34. What does the 2 mean in <u>2</u>0.35?

**A.** 2 hundreds
**B.** 2 ones
**C.** 2 tenths
**D.** 2 tens

---

35. What does the 0 mean in 5<u>0</u>.32?

**A.** 0 tens
**B.** 0 ones
**C.** 0 tenths
**D.** 0 thousands

---

36. What does the 5 mean in 43.3<u>5</u>?

**A.** 5 tens
**B.** 5 hundreds
**C.** 5 hundredths
**D.** 5 ones

**SOLVE**

37.

$$\begin{array}{r} 38.4 \\ +\,3.84 \\ \hline \end{array}$$

**A.** 4.224
**B.** 42.24
**C.** 76.8
**D.** 422.4

---

38.

$$\begin{array}{r} 58.2 \\ -\ 5.82 \\ \hline \end{array}$$

**A.** 0
**B.** 53.62
**C.** 52.42
**D.** 52.38

---

39.

$$\begin{array}{r} 946 \\ -\ 8.28 \\ \hline \end{array}$$

**A.** 937.72
**B.** 1.18
**C.** 938.28
**D.** 942.28

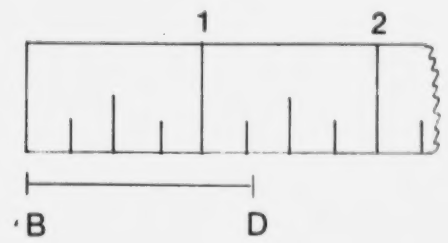
---

40.

$$\begin{array}{r} 7.96 \\ +\ 3.4 \\ \hline \end{array}$$

**A.** 4.56
**B.** 75.2
**C.** 11.36
**D.** 83.0

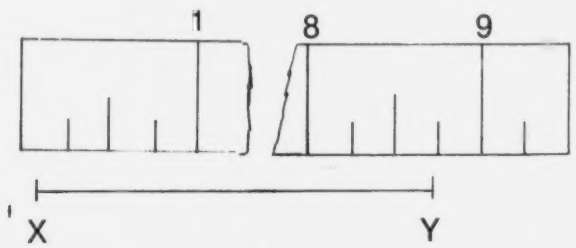
41. How long is $\overline{BD}$?




A. $\frac{1}{4}$ in.
B. $1\frac{1}{2}$ in.
C. $1\frac{2}{4}$ in.
D. $1\frac{1}{4}$ in.

---

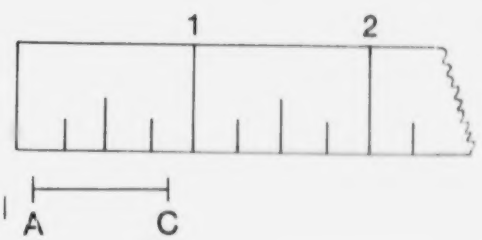
42. How long is $\overline{XY}$?




A. $8\frac{1}{4}$ in.
B. $8\frac{3}{4}$ in.
C. $9\frac{1}{4}$ in.
D. $8\frac{1}{2}$ in.

---

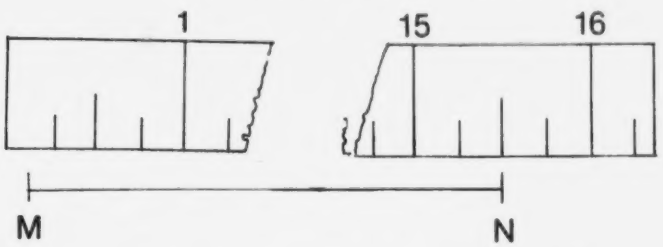
43. How long is $\overline{AC}$?




A. $\frac{3}{4}$ in.
B. $\frac{1}{2}$ in.
C. $1\frac{1}{4}$ in.
D. $1\frac{3}{4}$ in.

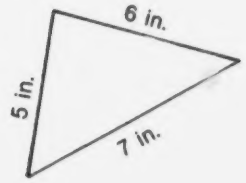
---

44. How long is $\overline{MN}$?




A. $16\frac{4}{4}$ in.
B. $16\frac{2}{4}$ in.
C. $15\frac{4}{4}$ in.
D. $15\frac{2}{4}$ in.

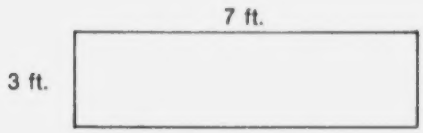
45. What is the perimeter of the polygon?




**A.** 11 in.
**B.** 18 in.
**C.** 30 in.
**D.** 42 in.

---

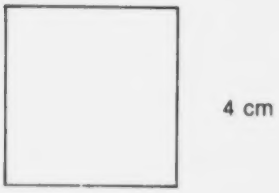
46. What is the perimeter of the polygon?




**A.** 10 ft
**B.** 20 ft.
**C.** 21 ft.
**D.** 42 ft.

---

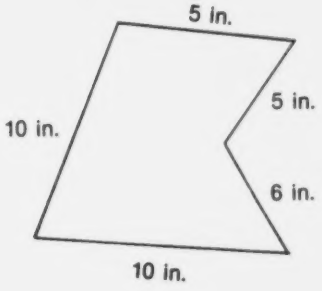
47. What is the perimeter of the polygon?




**A.** 4 cm
**B.** 8 cm
**C.** 16 cm
**D.** 24 cm

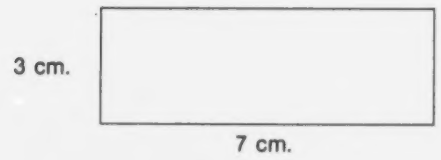
---

48. What is the perimeter of the polygon?




**A.** 14 in.
**B.** 25 in.
**C.** 26 in.
**D.** 36 in.

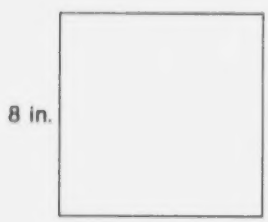
49. What is the area?




**A.** 21 square cm
**B.** 21 cm
**C.** 10 square cm
**D.** 10 cm

---

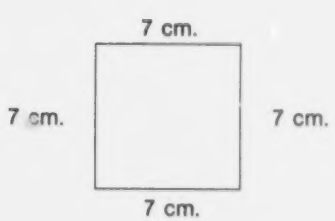
50. What is the area?




**A.** 16 in.
**B.** 16 square in.
**C.** 64 in.
**D.** 64 square in.

---

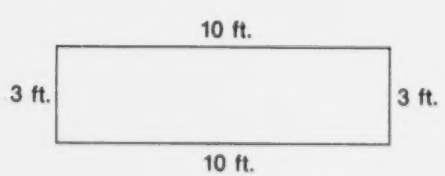
51. What is the area?




**A.** 14 cm
**B.** 28 square cm
**C.** 49 square cm
**D.** 49 cm

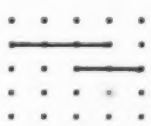
---

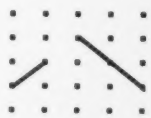
52. What is the area?

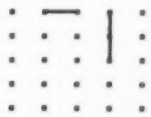


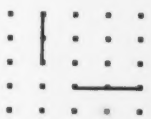

**A.** 30 ft.
**B.** 30 square ft.
**C.** 26 ft.
**D.** 26 square ft.

53. In which picture are the segments congruent?

A. 

B. 

C. 

D. 

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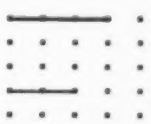
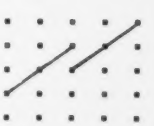
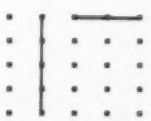
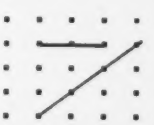
54. In which picture are the segments congruent?

A. 

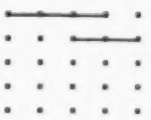
B. 

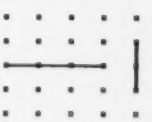
C. 

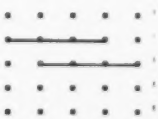
D. 

---

55. In which picture are the segments congruent?

A. 

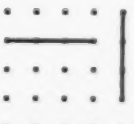
B. 

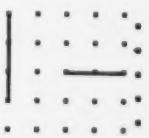
C. 

D.

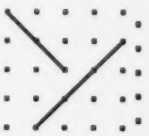
---

56. In which picture are the segments congruent?

A. 

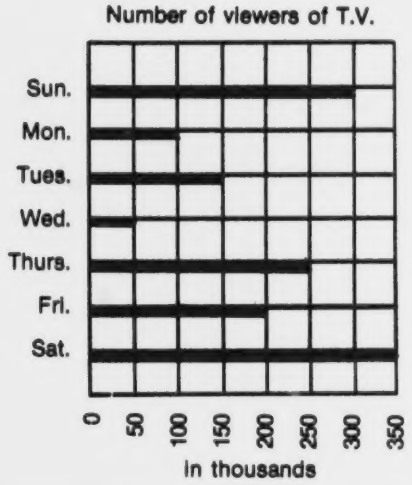
B. 

C.

D. 

110

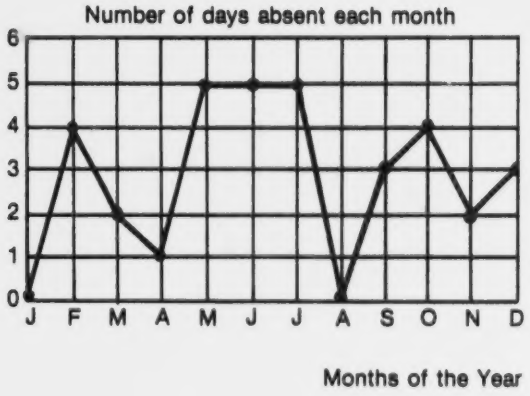
57. How many T.V. viewers were there on Sun. and Sat.?




A. 400 thousand
B. 650 thousand
C. 650 million
D. 350 thousand

---

58. How many days absent in September?



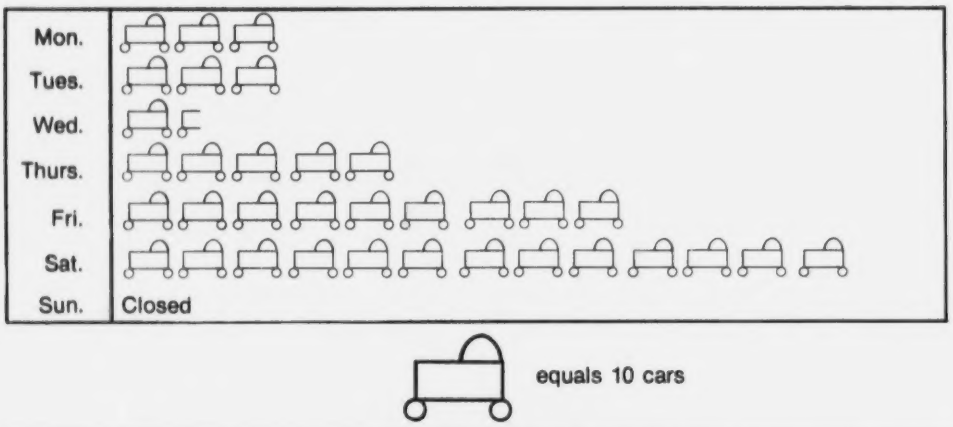

A. 2
B. 4
C. 3
D. 5

---

59. Use the graph in number 58. How many days absent in all?

A. 23
B. 24
C. 33
D. 34

60. How many cars washed in the three best days?




**A.** 270
**B.** 280
**C.** 27
**D.** 28

---

61. Find the average of 45, 28, 23

**A.** 30
**B.** 32
**C.** 45
**D.** 96

---

62. Find the average of 12, 12, 21, 15, 10

**A.** 14
**B.** 15
**C.** 70
**D.** 80

---

63. Find the average of 84, 73, 92

**A.** 73
**B.** 83
**C.** 84
**D.** 249

---

64. Find the average of 86, 94, 72, 63, 75

**A.** 63
**B.** 75
**C.** 78
**D.** 390

**CHOOSE THE BEST OPERATION TO SOLVE THE PROBLEM.**

65. A girl weighed 58 kg She gained 3 kg in one month. How much does she now weigh?

**A.** Add
**B.** Subtract
**C.** Multiply
**D.** Divide

---

66. Normal body temperature is 37.0° C. John's temperature was measured at 38.2° C. How much above normal was his temperature?

**A.** Add
**B.** Subtract
**C.** Multiply
**D.** Divide

---

67. A store ordered 500 stamps. Stamps come 50 to a sheet. How many sheets of stamps were needed?

**A.** Add
**B.** Subtract
**C.** Multiply
**D.** Divide

---

68. Carmen sold 6 doz. cookies at $3.00 per dozen. How many did he receive for the six dozen cookies?

**A.** Add
**B.** Subtract
**C.** Multiply
**D.** Divide

**Grade 5 - Level B  Test items 1 thru 48**

MM3-8 ANSW. KEY 53  GRADE 5B 10/01/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| | | | 18 | 5005-18 | 3 | 36 | 5009-36 | 3 |
| 1 | 5001-1 | 1 | 19 | 5005-19 | 4 | 37 | 5010-37 | 2 |
| 2 | 5001-2 | 2 | 20 | 5005-20 | 2 | 38 | 5010-38 | 4 |
| 3 | 5001-3 | 3 | 21 | 5006-21 | 4 | 39 | 5010-39 | 1 |
| 4 | 5001-4 | 4 | 22 | 5006-22 | 2 | 40 | 5010-40 | 3 |
| 5 | 5002-5 | 1 | 23 | 5006-23 | 3 | 41 | 5011-41 | 4 |
| 6 | 5002-6 | 4 | 24 | 5006-24 | 4 | 42 | 5011-42 | 2 |
| 7 | 5002-7 | 1 | 25 | 5007-25 | 1 | 43 | 5011-43 | 1 |
| 8 | 5002-8 | 2 | 26 | 5007-26 | 2 | 44 | 5011-44 | 4 |
| 9 | 5003-9 | 4 | 27 | 5007-27 | 1 | 45 | 5012-45 | 2 |
| 10 | 5003-10 | 4 | 28 | 5007-28 | 4 | 46 | 5012-46 | 2 |
| 11 | 5003-11 | 1 | 29 | 5008-29 | 2 | 47 | 5012-47 | 3 |
| 12 | 5003-12 | 2 | 30 | 5008-30 | 4 | 48 | 5012-48 | 4 |
| 13 | 5004-13 | 3 | 31 | 5008-31 | 1 | | | |
| 14 | 5004-14 | 1 | 32 | 5008-32 | 3 | | | |
| 15 | 5004-15 | 3 | 33 | 5009-33 | 1 | | | |
| 16 | 5004-16 | 2 | 34 | 5009-34 | 4 | | | |
| 17 | 5005-17 | 4 | 35 | 5009-35 | 2 | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

**Grade 5 - Level B  Test items 49 thru 68**

MM3-8 ANSW. KEY 54  GRADE 5B 10/01/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| | | | 18 | 5017-66 | 2 | | | |
| 1 | 5013-49 | 1 | 19 | 5017-67 | 4 | | | |
| 2 | 5013-50 | 4 | 20 | 5017-68 | 3 | | | |
| 3 | 5013-51 | 3 | | | | | | |
| 4 | 5013-52 | 2 | | | | | | |
| 5 | 5014-53 | 4 | | | | | | |
| 6 | 5014-54 | 2 | | | | | | |
| 7 | 5014-55 | 3 | | | | | | |
| 8 | 5014-56 | 1 | | | | | | |
| 9 | 5015-57 | 2 | | | | | | |
| 10 | 5015-58 | 3 | | | | | | |
| 11 | 5015-59 | 4 | | | | | | |
| 12 | 5015-60 | 1 | | | | | | |
| 13 | 5016-61 | 2 | | | | | | |
| 14 | 5016-62 | 1 | | | | | | |
| 15 | 5016-63 | 2 | | | | | | |
| 16 | 5016-64 | 3 | | | | | | |
| 17 | 5017-65 | 1 | | | | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 6
Form A

# MATH

## WEST BLOOMFIELD SCHOOL DISTRICT

## OUTCOME BASED

## MASTERY

## LEARNING PROGRAM

1. Which numeral is in the hundreds place?

569,784,321

**A.** 3
**B.** 4
**C.** 5
**D.** 7

---

2. Which numeral is in the ten-thousands place?

502,961,783

**A.** 2
**B.** 5
**C.** 6
**D.** 8

---

3. Which numeral is in the tens place?

782,903,564

**A.** 3
**B.** 6
**C.** 7
**D.** 9

---

4. Which numeral is in the millions place?

729,846,053

**A.** 0
**B.** 4
**C.** 7
**D.** 9

## MULTIPLY

5.

$$\begin{array}{r} 846 \\ \times\ 37 \\ \hline \end{array}$$

**A.** 8,460
**B.** 8,760
**C.** 30,302
**D.** 31,302

---

6.

$$\begin{array}{r} 704 \\ \times\ 87 \\ \hline \end{array}$$

**A.** 10,560
**B.** 10,688
**C.** 60,248
**D.** 61,248

---

7.

$$\begin{array}{r} 896 \\ \times\ 20 \\ \hline \end{array}$$

**A.** 1,792
**B.** 1,793
**C.** 17,920
**D.** 179,200

---

8.

$$\begin{array}{r} 683 \\ \times\ 64 \\ \hline \end{array}$$

**A.** 6,830
**B.** 6,930
**C.** 43,612
**D.** 43,712

**DIVIDE**

9.

$7\overline{)8419}$

**A.** 122 R 5
**B.** 1,201 R 12
**C.** 1,202 R 5
**D.** 11,102 R 12

---

10.

$6\overline{)6897}$

**A.** 1,149 R 1
**B.** 1,149 R 3
**C.** 9,249 R 1
**D.** 9,249 R 3

---

11.

$9\overline{)2439}$

**A.** 271
**B.** 371
**C.** 2,071
**D.** 3,071

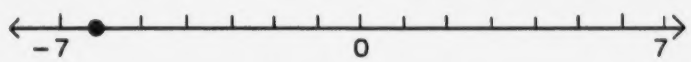
---

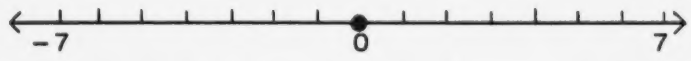
12.

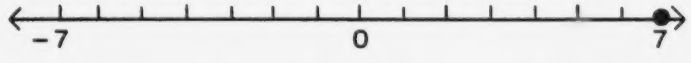
$4\overline{)9006}$

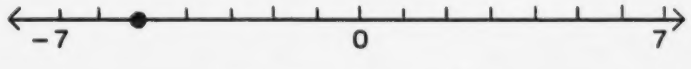
**A.** 226 R 2
**B.** 1,125 R 2
**C.** 2,249 R 10
**D.** 2,251 R 2

13. Which number line shows negative six?

A. 

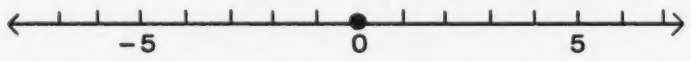

B. 

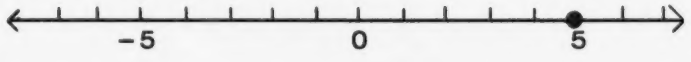

C. 

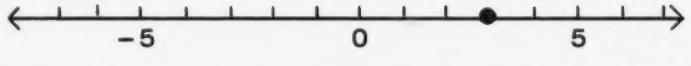

D. 

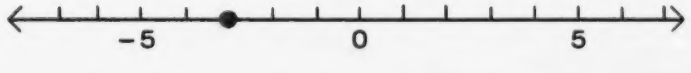

---

14. Which number line shows negative three?

A. 

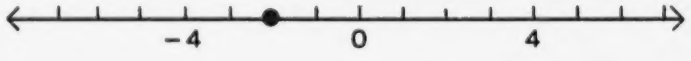

B. 

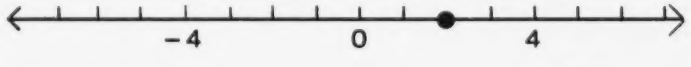

C. 

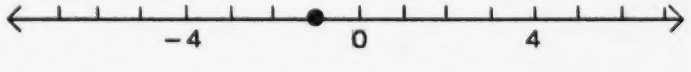

D. 

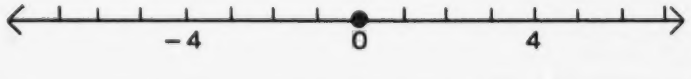

---

15. Which number line shows negative two?

A. 

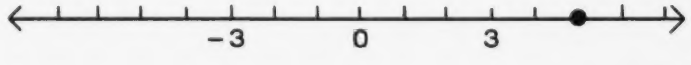

B. 

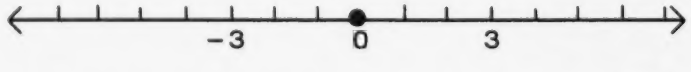

C. 

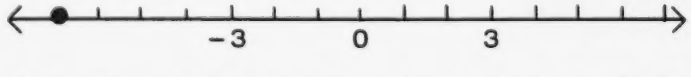

D. 

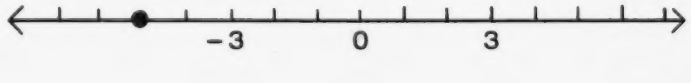

---

16. Which number line shows negative five?

A. 


B. 


C. 


D. 

**ADD**

17.

$$\begin{array}{r} 5\frac{1}{4} \\ +\ 3\frac{2}{4} \\ \hline \end{array}$$

**A.** $8\frac{3}{8}$
**B.** $8\frac{3}{4}$
**C.** $9\frac{1}{8}$
**D.** $9\frac{1}{4}$

---

**ADD**

18.

$$\begin{array}{r} 12\frac{1}{6} \\ +\ 3\frac{3}{6} \\ \hline \end{array}$$

**A.** $15\frac{4}{6}$
**B.** $15\frac{5}{6}$
**C.** $16\frac{2}{6}$
**D.** $16\frac{4}{12}$

---

**SUBTRACT**

19.

$$\begin{array}{r} 11\frac{6}{7} \\ -\ 8\frac{2}{7} \\ \hline \end{array}$$

**A.** $2\frac{4}{7}$
**B.** $2\frac{4}{14}$
**C.** $3\frac{4}{7}$
**D.** $3\frac{4}{14}$

---

**SUBTRACT**

20.

$$\begin{array}{r} 8\frac{4}{8} \\ -\ 2\frac{1}{8} \\ \hline \end{array}$$

**A.** $5\frac{1}{4}$
**B.** $5\frac{5}{16}$
**C.** $6\frac{3}{16}$
**D.** $6\frac{3}{8}$

## MULTIPLY

21. $\frac{1}{2} \times \frac{3}{5}$

A. $\frac{3}{7}$
B. $\frac{4}{10}$
C. $\frac{4}{7}$
D. $\frac{3}{10}$

---

22. $\frac{2}{3} \times \frac{3}{5}$

A. $\frac{5}{8}$
B. $\frac{6}{8}$
C. $\frac{5}{15}$
D. $\frac{6}{15}$

---

23. $\frac{2}{7} \times \frac{1}{3}$

A. $\frac{2}{21}$
B. $\frac{3}{21}$
C. $\frac{2}{10}$
D. $\frac{3}{10}$

---

24. $\frac{7}{8} \times \frac{3}{5}$

A. $\frac{4}{13}$
B. $\frac{10}{13}$
C. $\frac{21}{40}$
D. $\frac{10}{40}$

**ADD**

25.

62.43 + 78.97

**A.** 1.4040
**B.** 1.4140
**C.** 141.30
**D.** 141.40

---

**ADD**

26.

72.85 + 53.96

**A.** 11.671
**B.** 12.681
**C.** 126.71
**D.** 126.81

---

**SUBTRACT**

27.

85.72 – 29.49

**A.** 55.23
**B.** 56.23
**C.** 56.33
**D.** 64.33

---

**SUBTRACT**

28.

70.28 – 28.39

**A.** 40.89
**B.** 41.89
**C.** 41.11
**D.** 58.11

29. Show as a percent: .89

A. 8.9%
B. 89%
C. $\frac{89}{100}$%
D. .89%

---

30. Show as a percent: .36

A. $\frac{36}{100}$%
B. 36%
C. 3.6%
D. .36%

---

31. Show as a percent: .92

A. 92%
B. 9.2%
C. .92%
D. $\frac{92}{100}$%

---

32. Show as a percent: .18

A. .18%
B. $\frac{18}{100}$%
C. 18%
D. 1.8%

33. Show as a percent:

$\frac{56}{100}$

**A.** .56%
**B.** 56%
**C.** $\frac{56}{100}$%
**D.** 560%

---

34. Show as a percent:

$\frac{17}{100}$

**A.** .17%
**B.** $\frac{17}{100}$%
**C.** 1.7%
**D.** 17%

---

35. Show as a percent:

$\frac{82}{100}$

**A.** 82%
**B.** 8.2%
**C.** $\frac{82}{100}$%
**D.** .82%

---

36. Show as a percent:

$\frac{37}{100}$

**A.** 3.7%
**B.** .37%
**C.** 37%
**D.** $\frac{37}{100}$%

37. Which says 5 meters?

**A.** 5 mm
**B.** 5 cm
**C.** 5 m
**D.** 5 km

---

38. Which says 29 kilometers?

**A.** 29 mm
**B.** 29 cm
**C.** 29 m
**D.** 29 km

---

39. Which says 38 centimeters?

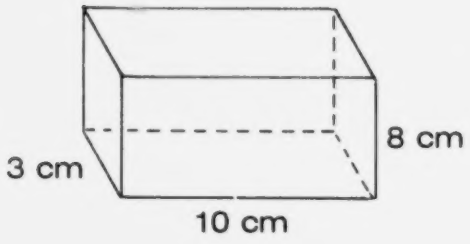
**A.** 38 mm
**B.** 38 cm
**C.** 38 m
**D.** 38 km

---

40. Which says 18 millimeters?

**A.** 18 mm
**B.** 18 cm
**C.** 18 m
**D.** 18 km

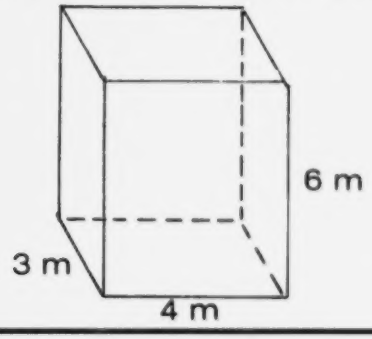
41. Find the volume:




**A.** 83 $cm^3$
**B.** 21 $cm^3$
**C.** 38 $cm^3$
**D.** 240 $cm^3$

---

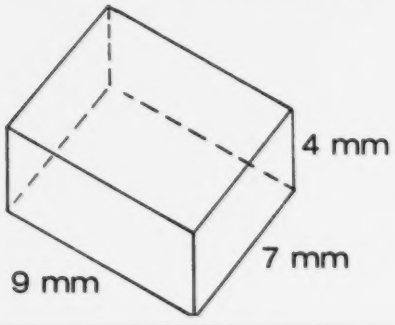
42. Find the volume:




**A.** 13 $m^3$
**B.** 18 $m^3$
**C.** 72 $m^3$
**D.** 75 $m^3$

---

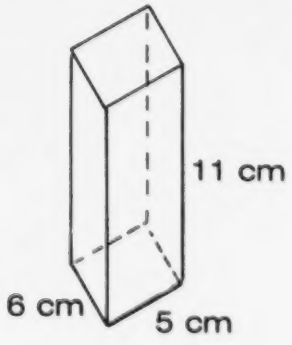
43. Find the volume:




**A.** 20 $mm^3$
**B.** 67 $mm^3$
**C.** 252 $mm^3$
**D.** 367 $mm^3$

---

44. Find the volume:




**A.** 22 $cm^3$
**B.** 41 $cm^3$
**C.** 71 $cm^3$
**D.** 330 $cm^3$

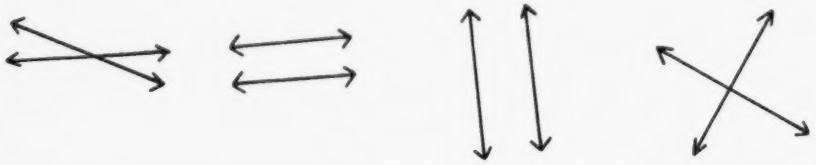
45. Which shows perpendicular lines?

**A.** **B.** **C.** **D.**

---

46. Which shows perpendicular lines?

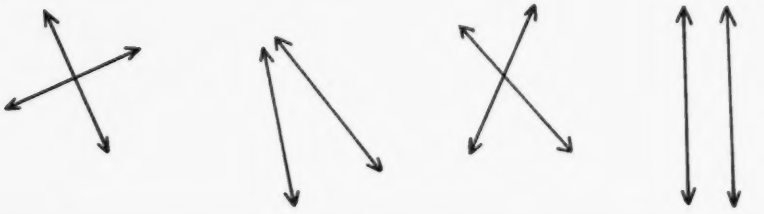
**A.** **B.** **C.** **D.**



---

47. Which shows parallel lines?

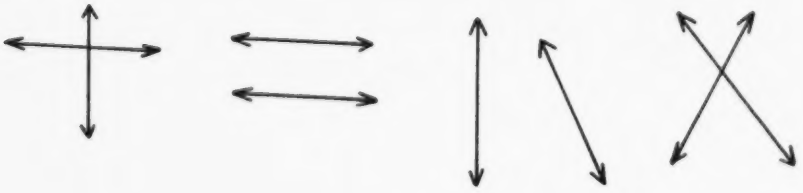
**A.** **B.** **C.** **D.**



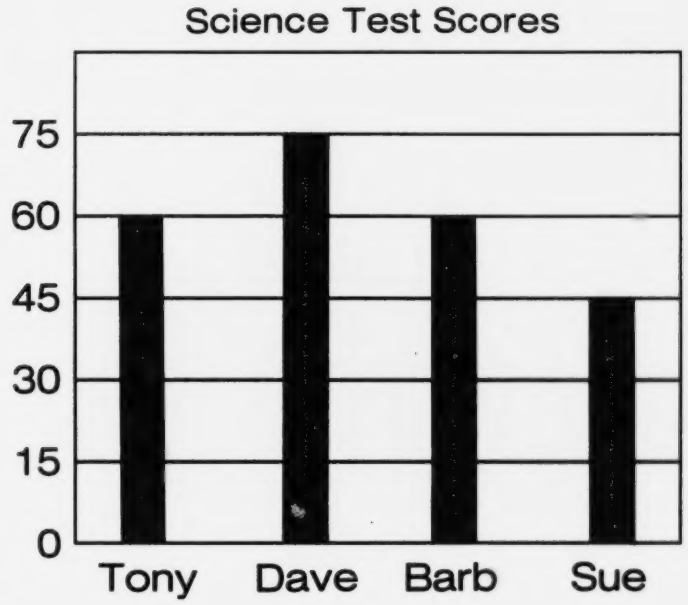
---

48. Which shows parallel lines?

**A.** **B.** **C.** **D.**



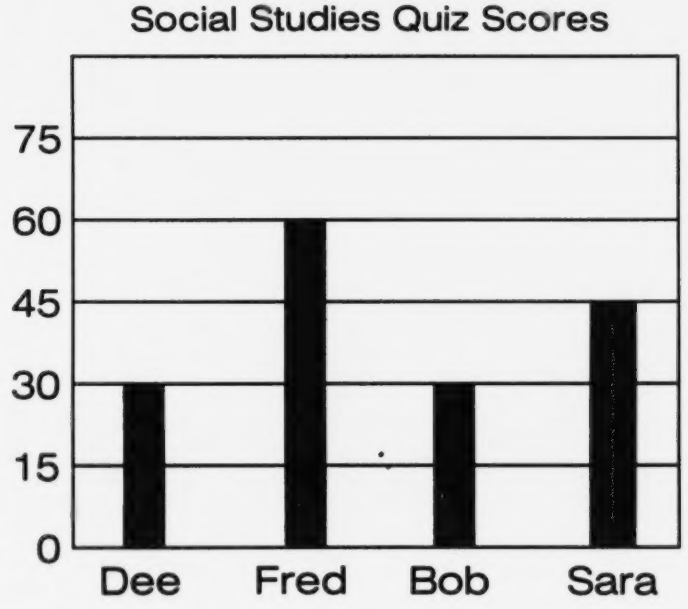
49. What is Dave's score?




A. 30
B. 45
C. 60
D. 75

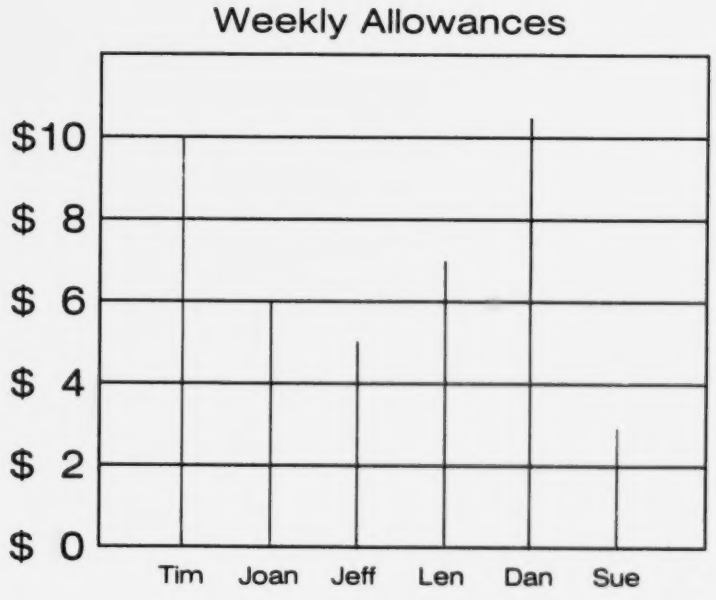
---

50. Whose score is 45?




A. Dee
B. Fred
C. Bob
D. Sara

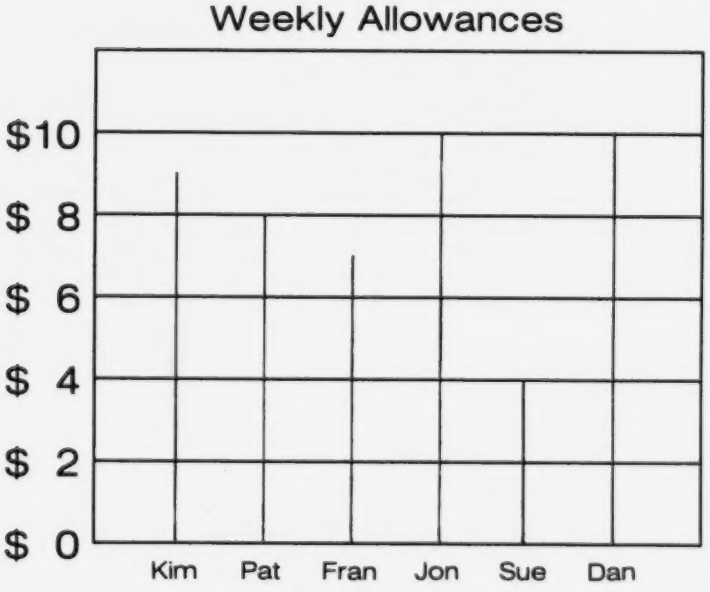
51. How much is Jeff's weekly allowance?




**A.** $ 1
**B.** $ 5
**C.** $ 6
**D.** $10

---

52. Whose weekly allowance is $8?




**A.** Kim
**B.** Pat
**C.** Fran
**D.** Jon

## Grade 6 - Level A  Items 1 thru 48

MM3-8 ANSW. KEY 61  GRADE 6A 10/04/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| | | | 18 | 6005-18 | 1 | 36 | 6009-36 | 3 |
| 1 | 6001-1 | 1 | 19 | 6005-19 | 3 | 37 | 6010-37 | 3 |
| 2 | 6001-2 | 3 | 20 | 6005-20 | 4 | 38 | 6010-38 | 4 |
| 3 | 6001-3 | 2 | 21 | 6006-21 | 4 | 39 | 6010-39 | 2 |
| 4 | 6001-4 | 4 | 22 | 6006-22 | 4 | 40 | 6010-40 | 1 |
| 5 | 6002-5 | 4 | 23 | 6006-23 | 1 | 41 | 6011-41 | 4 |
| 6 | 6002-6 | 4 | 24 | 6006-24 | 3 | 42 | 6011-42 | 3 |
| 7 | 6002-7 | 3 | 25 | 6007-25 | 4 | 43 | 6011-43 | 3 |
| 8 | 6002-8 | 4 | 26 | 6007-26 | 4 | 44 | 6011-44 | 4 |
| 9 | 6003-9 | 3 | 27 | 6007-27 | 2 | 45 | 6012-45 | 2 |
| 10 | 6003-10 | 2 | 28 | 6007-28 | 2 | 46 | 6012-46 | 4 |
| 11 | 6003-11 | 1 | 29 | 6008-29 | 2 | 47 | 6012-47 | 4 |
| 12 | 6003-12 | 4 | 30 | 6008-30 | 2 | 48 | 6012-48 | 2 |
| 13 | 6004-13 | 1 | 31 | 6008-31 | 1 | | | |
| 14 | 6004-14 | 4 | 32 | 6008-32 | 3 | | | |
| 15 | 6004-15 | 1 | 33 | 6009-33 | 2 | | | |
| 16 | 6004-16 | 4 | 34 | 6009-34 | 4 | | | |
| 17 | 6005-17 | 2 | 35 | 6009-35 | 1 | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 6 - Level A  Items 49 thru 52

MM3-B ANSW. KEY 62  GRADE 6A 10/04/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| 1 | 6013-49 | 4 | | | | | | |
| 2 | 6013-50 | 4 | | | | | | |
| 3 | 6013-51 | 2 | | | | | | |
| 4 | 6013-52 | 2 | | | | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

Grade 6
Form B

# MATH

## WEST BLOOMFIELD SCHOOL DISTRICT

## OUTCOME BASED

## MASTERY

## LEARNING PROGRAM

1. 410,629,357
Which numeral is in the hundreds place?

**A.** 5
**B.** 3
**C.** 9
**D.** 4

---

2. 176,450,238
Which numeral is in the millions place?

**A.** 7
**B.** 4
**C.** 1
**D.** 6

---

3. 539,284,176
Which numeral is in the tens place?

**A.** 7
**B.** 4
**C.** 6
**D.** 8

---

4. 901,647,382
Which numeral is in the hundred-thousands place?

**A.** 3
**B.** 6
**C.** 1
**D.** 4

## MULTIPLY

5.

$$\begin{array}{r} 732 \\ \times\ 54 \\ \hline \end{array}$$

**A.** 39,428
**B.** 6,588
**C.** 39,528
**D.** 65,880

---

6.

$$\begin{array}{r} 519 \\ \times\ 38 \\ \hline \end{array}$$

**A.** 19,722
**B.** 5,709
**C.** 20,722
**D.** 19,622

---

7.

$$\begin{array}{r} 408 \\ \times\ 63 \\ \hline \end{array}$$

**A.** 25,604
**B.** 26,604
**C.** 26,704
**D.** 25,704

---

8.

$$\begin{array}{r} 675 \\ \times\ 27 \\ \hline \end{array}$$

**A.** 18,225
**B.** 18,325
**C.** 17,225
**D.** 6,075

**DIVIDE**

9.

$4\overline{)2973}$

**A.** 743 R 1
**B.** 74,325
**C.** 743 R 4
**D.** 742 R 1

---

10.

$8\overline{)5015}$

**A.** 616 R 7
**B.** 626 R 7
**C.** 624 R 3
**D.** 626 R 8

---

11.

$7\overline{)9476}$

**A.** 1,353 R 5
**B.** 135 R 5
**C.** 1,353
**D.** 1,354 R 5

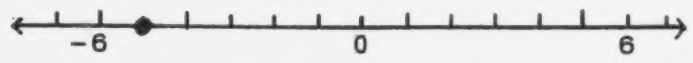
---

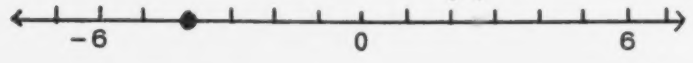
12.

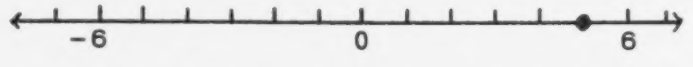
$5\overline{)3860}$

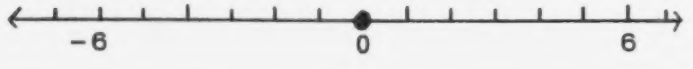
**A.** 772
**B.** 772 R 1
**C.** 722 R 3
**D.** 722

13. Which number line shows negative five?

A. 

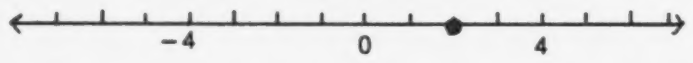

B. 

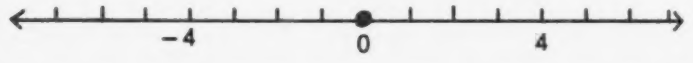

C. 

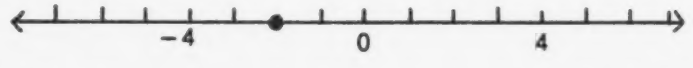

D. 

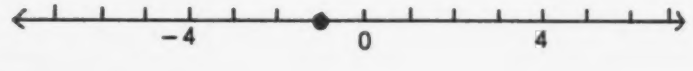

---

14. Which number line shows negative two?

A. 

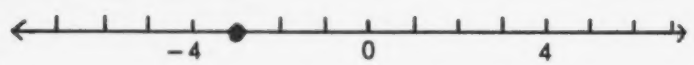

B. 

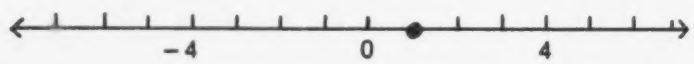

C. 

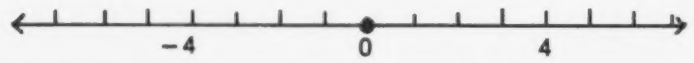

D. 

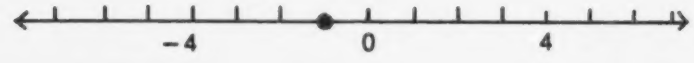

---

15. Which number line shows negative one?

A. 

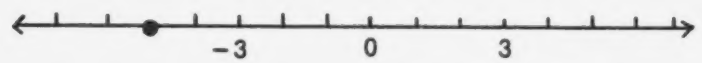

B. 

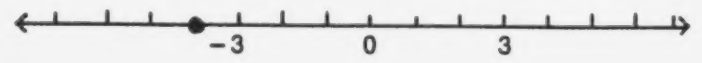

C. 

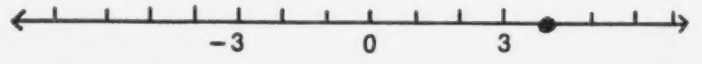

D. 

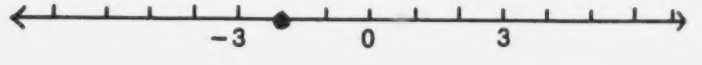

---

16. Which number line shows negative four?

A. 


B. 


C. 


D. 

**ADD**

17.

$$\begin{array}{r} 9\frac{1}{5} \\ +\ 2\frac{3}{5} \\ \hline \end{array}$$

**A.** $12\frac{4}{5}$
**B.** $11\frac{4}{10}$
**C.** $12\frac{2}{5}$
**D.** $11\frac{4}{5}$

---

**ADD**

18.

$$\begin{array}{r} 4\frac{3}{7} \\ +\ 3\frac{2}{7} \\ \hline \end{array}$$

**A.** $8\frac{5}{7}$
**B.** $7\frac{5}{7}$
**C.** $7\frac{2}{7}$
**D.** $8\frac{2}{7}$

---

**SUBTRACT**

19.

$$\begin{array}{r} 6\frac{3}{4} \\ -\ 4\frac{2}{4} \\ \hline \end{array}$$

**A.** $2\frac{1}{4}$
**B.** $1\frac{1}{4}$
**C.** $2\frac{1}{8}$
**D.** $1\frac{1}{8}$

---

**SUBTRACT**

20.

$$\begin{array}{r} 7\frac{3}{6} \\ -\ 1\frac{2}{6} \\ \hline \end{array}$$

**A.** $6\frac{1}{6}$
**B.** $5\frac{1}{6}$
**C.** $5\frac{5}{6}$
**D.** $6\frac{1}{12}$

## MULTIPLY

21. $\frac{2}{5} \times \frac{1}{7}$

**A.** $\frac{3}{35}$
**B.** $\frac{2}{12}$
**C.** $\frac{2}{35}$
**D.** $\frac{3}{12}$

---

22. $\frac{1}{3} \times \frac{5}{6}$

**A.** $\frac{5}{9}$
**B.** $\frac{6}{18}$
**C.** $\frac{6}{9}$
**D.** $\frac{5}{18}$

---

23. $\frac{3}{4} \times \frac{3}{7}$

**A.** $\frac{9}{28}$
**B.** $\frac{9}{11}$
**C.** $\frac{6}{11}$
**D.** $\frac{6}{28}$

---

24. $\frac{5}{9} \times \frac{1}{8}$

**A.** $\frac{6}{17}$
**B.** $\frac{5}{17}$
**C.** $\frac{6}{72}$
**D.** $\frac{5}{72}$

**ADD**

25.

36.41 + 17.56

**A.** 63.97
**B.** 53.97
**C.** 5.397
**D.** .6397

---

**ADD**

26.

64.25 + 58.07

**A.** 112.32
**B.** 122.32
**C.** 1.1232
**D.** 1.2232

---

**SUBTRACT**

27.

82.26 – 41.98

**A.** .4028
**B.** 41.72
**C.** 40.28
**D.** 4.172

---

**SUBTRACT**

28.

20.43 – 18.46

**A.** 1.97
**B.** 2.97
**C.** 2.03
**D.** .0197

29. Show as a percent: .24

A. 24%
B. 2.4%
C. $\frac{24}{100}$ %
D. .24%

---

30. Show as a percent: .92

A. .92%
B. $\frac{92}{100}$ %
C. 92%
D. 9.2%

---

31. Show as a percent: .33

A. $\frac{33}{100}$ %
B. 33%
C. 3.3%
D. .33%

---

32. Show as a percent: .47

A. 4.7%
B. .47%
C. $\frac{47}{100}$ %
D. 47%

33. Show as a percent:

$\frac{52}{100}$

A. 5.2%
B. .52%
C. 52%
D. $\frac{52}{100}$%

---

34. Show as a percent:

$\frac{11}{100}$

A. $\frac{11}{100}$%
B. .11%
C. 11%
D. 1.1%

---

35. Show as a percent:

$\frac{87}{100}$

A. 8.7%
B. 87%
C. $\frac{87}{100}$%
D. .87%

---

36. Show as a percent:

$\frac{40}{100}$

A .407%
B 407%
C $\frac{40}{100}$7%
D .45%

37. Which says 14 kilometers?

**A.** 14 km
**B.** 14 m
**C.** 14 cm
**D.** 14 mm

---

38. Which says 7 centimeters?

**A.** 7 m
**B.** 7 mm
**C.** 7 km
**D.** 7 cm

---

39. Which says 32 millimeters?

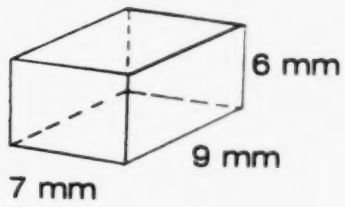
**A.** 32 cm
**B.** 32 mm
**C.** 32 m
**D.** 32 km

---

40. Which says 4 meters?

**A.** 4 m
**B.** 4 cm
**C.** 4 mm
**D.** 4 km

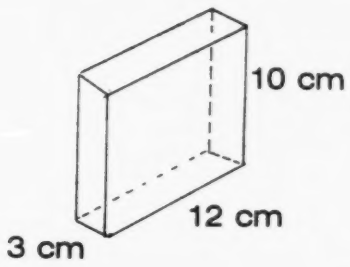
41. Find the volume: (Volume = length x width x height)




A. 44 $mm^3$
B. 378 $mm^3$
C. 22 $mm^3$
D. 189 $mm^3$

---

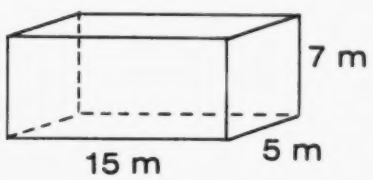
42. Find the volume: (Volume = length x width x height)




A. 360 $cm^3$
B. 25 $cm^3$
C. 180 $cm^3$
D. 50 $cm^3$

---

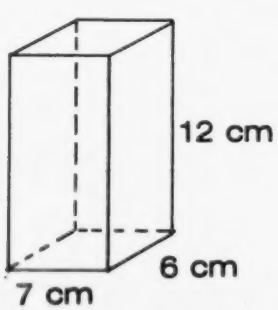
43. Find the volume: (Volume = length x width x height)




A. 56 $m^3$
B. 27 $m^3$
C. 1050 $m^3$
D. 525 $m^3$

---

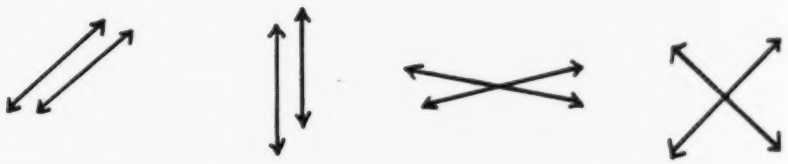
44. Find the volume: (Volume = length x width x height)




A. 50 $cm^3$
B. 504 $cm^3$
C. 1008 $cm^3$
D. 25 $cm^3$

45. Which shows perpendicular lines?

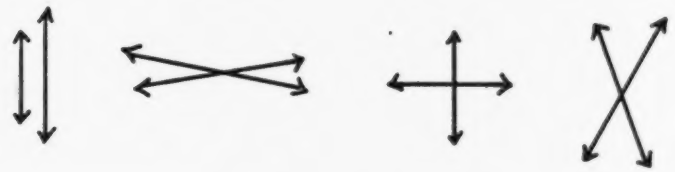
A. B. C. D.



---

46. Which shows perpendicular lines?

A. B. C. D.



---

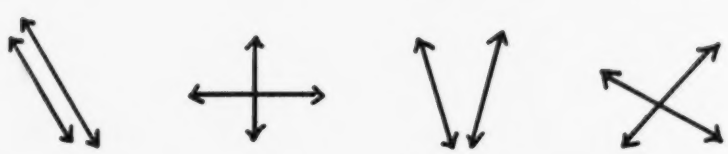
47. Which shows parallel lines?

A. B. C. D.

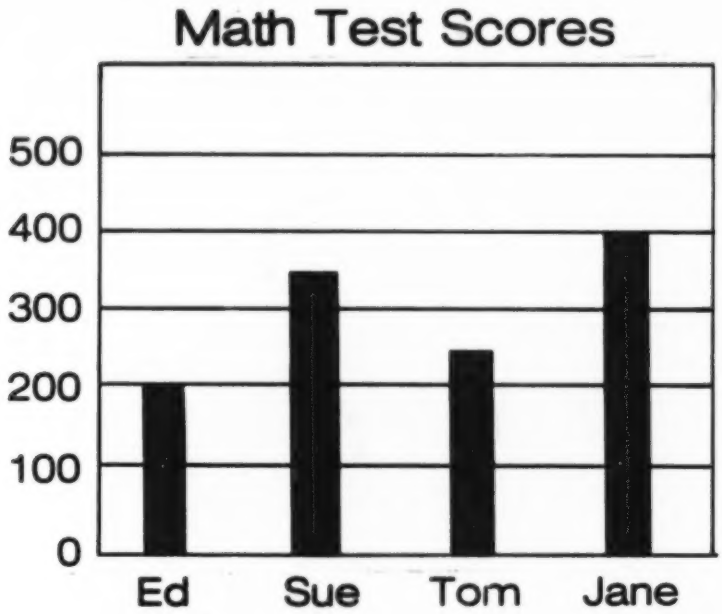
---

48. Which shows parallel lines?

A. B. C. D.



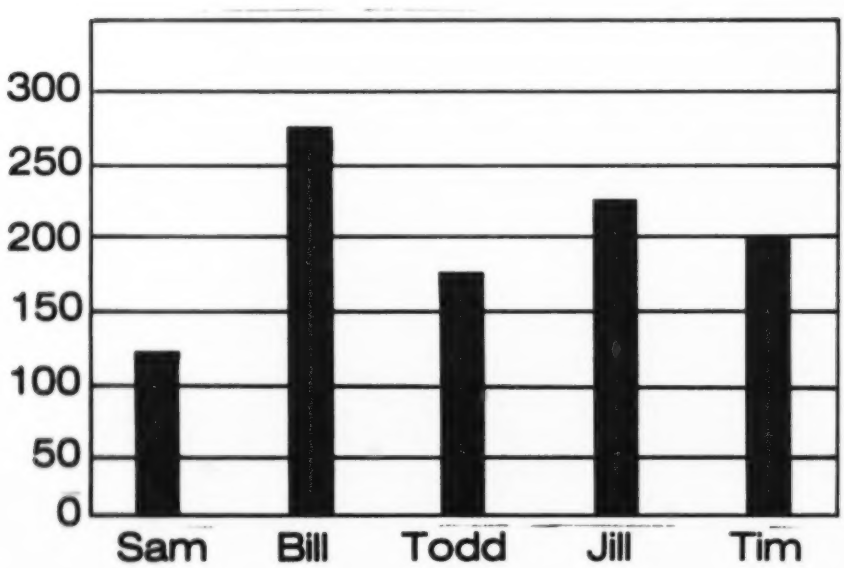
49. What is Tom's score?




A. 200
B. 250
C. 300
D. 350

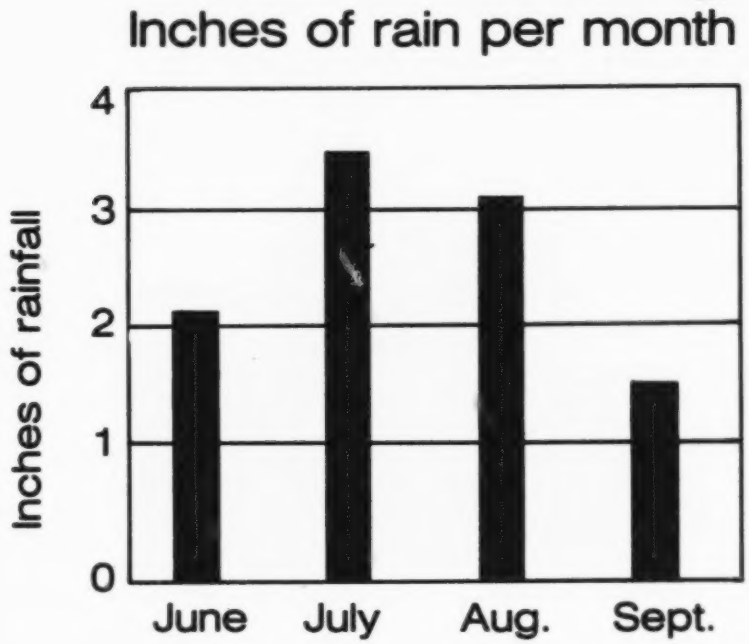
---

50. Whose score is 225?




A. Sam
B. Todd
C. Jill
D. Tim

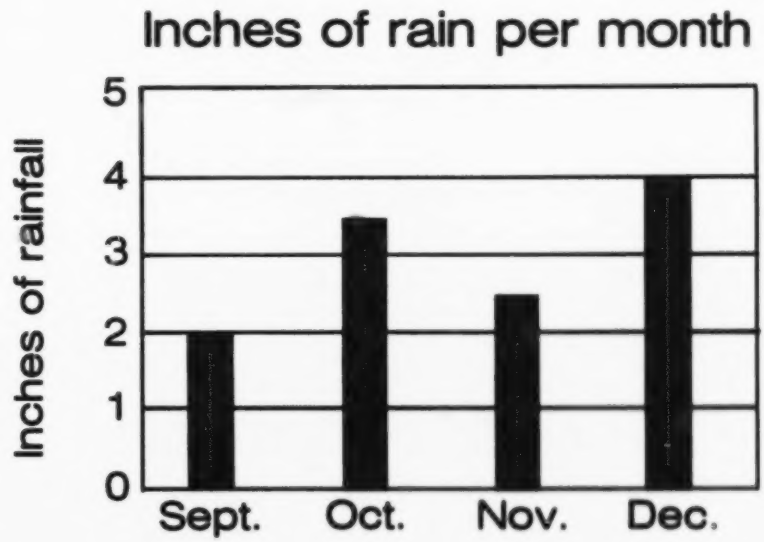
51. Which answer is the number of inches of rain which fell in July?




A. 2
B. 2 ½
C. 3 ¼
D. 3 ½

---

52. In what month did 2 ½ inches of rain fall?




A. October
B. November
C. December
D. September

## Grade 6 - Level B  Items 1 thru 48

MM3-8 ANSW. KEY 63  GRADE 6B 10/04/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| | | | 18 | 6005-18 | 2 | 36 | 6009-36 | 2 |
| 1 | 6001-1 | 2 | 19 | 6005-19 | 1 | 37 | 6010-37 | 1 |
| 2 | 6001-2 | 4 | 20 | 6005-20 | 1 | 38 | 6010-38 | 4 |
| 3 | 6001-3 | 1 | 21 | 6006-21 | 3 | 39 | 6010-39 | 2 |
| 4 | 6001-4 | 2 | 22 | 6006-22 | 4 | 40 | 6010-40 | 1 |
| 5 | 6002-5 | 3 | 23 | 6006-23 | 1 | 41 | 6011-41 | 2 |
| 6 | 6002-6 | 1 | 24 | 6006-24 | 4 | 42 | 6011-42 | 1 |
| 7 | 6002-7 | 4 | 25 | 6007-25 | 2 | 43 | 6011-43 | 4 |
| 8 | 6002-8 | 1 | 26 | 6007-26 | 2 | 44 | 6011-44 | 2 |
| 9 | 6003-9 | 1 | 27 | 6007-27 | 3 | 45 | 6012-45 | 4 |
| 10 | 6003-10 | 2 | 28 | 6007-28 | 1 | 46 | 6012-46 | 3 |
| 11 | 6003-11 | 1 | 29 | 6008-29 | 1 | 47 | 6012-47 | 2 |
| 12 | 6003-12 | 1 | 30 | 6008-30 | 3 | 48 | 6012-48 | 1 |
| 13 | 6004-13 | 1 | 31 | 6008-31 | 2 | | | |
| 14 | 6004-14 | 3 | 32 | 6008-32 | 4 | | | |
| 15 | 6004-15 | 4 | 33 | 6009-33 | 3 | | | |
| 16 | 6004-16 | 2 | 34 | 6009-34 | 3 | | | |
| 17 | 6005-17 | 4 | 35 | 6009-35 | 2 | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM

## Grade 6 - Level B Items 49 thru 52

MM3-8 ANSW. KEY 64 GRADE 6B 10/04/87

| # | OBJ-IT | ANS | # | OBJ-IT | ANS | # | OBJ-IT | ANS |
|---|---|---|---|---|---|---|---|---|
| 1 | 6013-49 | 2 | | | | | | |
| 2 | 6013-50 | 3 | | | | | | |
| 3 | 6013-51 | 4 | | | | | | |
| 4 | 6013-52 | 2 | | | | | | |

1=A, 2=B, 3=C, 4=D, AND 5=E

HOUGHTON MIFFLIN COMPUTER MANAGEMENT SYSTEM